



TELEPHONE NUMBER:  
3617 CENTRAL (3 lines).

**Established in  
ENGLAND, 1859**

Registered as a Newspaper.  
Published Weekly at 42 CANNON STREET,  
LONDON, E.C. 4.

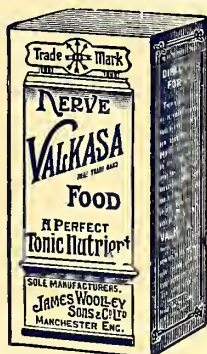
TELEGRAPHIC ADDRESS:  
"CHEMICUS, CANNON, LONDON."  
[Charged as two words only.]

**Established in  
AUSTRALASIA, 1885**

No. 1,997. Vol. XC.

MAY 4, 1918.

Subscription Rate, 12s. 6d. per annum  
Single Copies, 6d. each. Winter and Summer  
Issues, 1s. each. Post Free.



BRITISH made and BRITISH owned.

# TONIC NERVE FOOD VALKASA

(Registered Trade Mark)

Stocked by London and Provincial Wholesale Houses.

In 2-oz., 8-oz., and 16-oz. Tins.

Revised P.A.T.A. Minimum Retail Prices, 1/4, 4/-, and 7/- each.

**JAMES WOOLLEY, SONS & Co., Ltd., MANCHESTER.**

2nd EDITION (REVISED).

Price 10/6 net; post free 10/10 (inland)

## SQUIRE'S POCKET COMPANION

TO THE  
BRITISH PHARMACOPŒIA.

Published by J & A. CHURCHILL,  
7 Gt. Marlborough Street, W. 1.

"Of as much value to dispensers as  
to prescribers."—*Chemist and  
Druggist*.

"Can be strongly recommended to  
prescribers."—*The British Medi-  
cal Journal*.

"No commentary on any Pharma-  
copœia has been so thoroughly  
comprehensive and generally  
satisfactory."—*The Practitioner*.

"It contains a vast amount of  
really useful matter."—*The  
Prescriber*.

Illustrated descriptive leaflet gratis.

**SQUIRE & SONS, Ltd.**

The King's Chemists,  
413 OXFORD STREET, W. 1.



## MARTINDALE'S AMYL NITRITE CAPSULES

are in great demand at present.  
Also the following recent intro-  
ductions:

ALLYL SULPHIDE CAPSULES  
EMETINE-BISMUTH-IODIDE  
FOUR CLAND TABLETS  
MAGNESIUM PEROXIDE TABLETS  
IRON & ARSENIC STERILES  
CICATRINE

Thiosinamin (Comp.)

Details from

**W. MARTINDALE,**  
10 NEW CAVENDISH STREET,  
LONDON, W. 1.

Telegrams: 'Martindale, Chemist, London.'  
Telephones: Gerrard 4688. Paddington 1797

OIL OF

## JUNIPER BERRY

(FOREIGN).

We now have spot sup-  
plies, and can offer on very  
advantageous terms.

**STAFFORD ALLEN & SONS, LTD.**  
COWPER STREET, FINSBURY,  
LONDON, E.C. 2.

# ***WE INVITE YOUR ATTENTION TO THE FOLLOWING:***

**Salicylic Acid**

**Soda Salicylate**

**Chloroform**

**Methyl Salicylate**

**Aspirin**

**Terpin Hydrate**

**Aubepine**

**Benzyl Alcohol**

**Urotropin**

**Vanillin**

**Artificial Violet**

**Terpineol**

**Salol**

**Phenacetin**

**Benzoic Acid**

**Benzaldehyde**

**Thymol**

**Heliotropine**

**MADE IN**

**ENGLAND**

**BY**

**W. J. BUSH & CO**

**LIMITED**

**ASH GROVE, HACKNEY, LONDON, E. 8.**

---

***PROMPT DELIVERY CAN BE MADE.***





# COMPRESSED TABLETS of ALL DESCRIPTIONS.

**MEDICINAL  
AND  
TOILET  
SPECIALITIES**

TO-DAY'S PRICES:				
TABLETS	25's	50's	100's	1000
T90 Acetanilide Comp. ....	5/3	8/9	15/6	10/-
T83 Aspirin ..... grs. v	6/-	11/-	20/-	15/-
T6 Bismuth, Pepsin & Char.	2/9	4/6	8/-	4/6
T14 Cascara Sagrada grs. 2	5/9	10/9	20/-	12/6
T15 Easton's Syrup ... dr. 1	4/6	8/-	14/9	8/-
T135 Formalin Throat ..... 1/2	4/-	5/9	10/6	6/-
T150 Hexamine ..... grs. v	5/-	8/6	14/9	9/6
T28 Laxative Vegetable.....	3/6	6/-	11/-	7/-
T24 Phenacetin ..... grs. v	10/9	19/6	37/-	28/-
T25 Phenacetin Comp. ....	10/9	19/6	37/-	28/-
T79 Quin. Ammon. .... dr. 1	6/6	12/3	23/-	15/-
" " " " " " " " " " " "	5/-	8/9	16/6	9/6
T72 Quin. Sulph. .... grs. 2	8/9	16/3	31/6	22/-

**ENORMOUS  
QUANTITIES OF  
DIFFERENT  
FORMULÆ  
PILLS IN STOCK**

**GOODS of HIGH-CLASS QUALITY ONLY SUPPLIED.**

## ARTHUR H. COX & CO. LTD

**Manufacturing Chemists**

**BRIGHTON  
ENGLAND**



# EBURITE PAPER CO., Ltd.

AMBERLEY ROAD, PADDINGTON, W.9.

**WE WANT  
WASTE  
PAPER**

---

Best Prices.      We Collect.

MAKERS OF  
**CORRUGATED PAPER**



# Bronamalt

An IDEAL TONIC FOOD

*A combination of the active principles of Vibrona with a highly concentrated preparation of Malt in place of Wine. The nutritive value of the Malt is greatly enhanced by the addition of the Tonic constituents of Vibrona in such a form as to be capable of assimilation by persons of weak digestion.*

BRONAMALT possesses both Tonic and Nutrient properties and thus presents obvious advantages over Malt and Cod Liver Oil.

*In cases of impaired nutrition, either in children or adults, BRONAMALT is an invaluable adjunct to the daily dietary.*

Minimum Prices:—Retail, 2/6 and 4/6.

Wholesale, less than one dozen, 26/- and 45/-.

One dozen and upwards, 24/- and 42/- respectively.

HORDEUM  
DISTICHON

CINCHONA  
SUCCIRUBRA

ALGE

ALGE



SOLE PROPRIETORS

FLETCHER, FLETCHER & CO. LTD., LONDON & SYDNEY



GUARANTEED  BRITISH MADE

**"KEMSUN"**

The  
ONLY  
ENEMA  
with a  
STERILIZABLE  
RUBBER  
VAGINAL  
PIPE

**33/-**  
per dozen

Special  
Terms  
to the  
Wholesale  
Trade

STERILIZABLE

**ENEMA**

FITTED  
with  
PURE  
INDIARUBBER  
VAGINAL PIPE

*Nothing like it  
on the Market.*

SUPERSEDES THE INSANITARY  
ELASTIC GUM PIPES  
as fitted to  
ALL OTHER ENEMAS.

Fully  
GUARANTEED  
for 2  
YEARS  
IMMEDIATE  
DELIVERY

**33/-**  
per dozen

Special  
Terms  
to the  
Wholesale  
Trade

**CHEMISTS SUNDRIES LTD MANCHESTER**



The Arabic numerals (1 to 32) in this Index refer to Advertisements in the front of literary pages, the Advertisements following the literary pages are numbered in Roman numerals (i to xlv).

**For more complete Buyers' Guide see "The Chemist & Druggist" Diary, 1918.**

ALCOCK MANUFACTURING CO., Plasters, &c.	xxxxiii	PINK, F. & CO., Gums	xxxxvi	PHARMACEUTICAL LANOLINE CO., Toleil	90
ALLEN, STAFFORD, & SONS, Ld., Essential Oils	xxxxv	FLETCHER, FLETCHER & CO., Ld., Liquors	3, Text	PHILLIPS, C. H., CHEMICAL CO., Magnesia Prep.	iv
ALLIANCE DRUG & CHEMICAL CO., Drugs, Chemicals	ix	FLOREY, HARTLEY, Chemicals	viii	PICKRENO, V. A., Chemicals	ix
AMSTERDAM QUININE WORKS, Quinine	ix	FORD, SHAPLAND & CO., Chemists/Printing	xxxxii	PICKARD, AVE & BANKIN, Ld., Acetyl-Salicylic Acid	xv
ANGLO-FRENCH DRUG CO., Ld., Proprietaries	xv	FORSYTH, E. & SON, Ld., Soap and Chemical Plant	xxxv	PISCO CO., Ld., Electrical Novelties	28
ANTHONY PERFUMERY CO., Hair Preparations	14	FRANK FOOD CO., Ld., Foods	8	POMEROY, Ld., Skin Food	28
ARSTON, P. R., Perfumery	xxiii	FRANK J. F., Ld., Hair Dressing	xxvii	POMEROY, Ld., Skin Food	28
AYTON, SAUNDERS & CO., Ld., Wholesale Druggists	15	FUERST BROS., Ld., Chemicals (Furs and Technical)	xxvii	PRICE, A. S., & CO., Ld., Horrie, Ashina Benzoin	28
BAILLY, ROBERT, & SON, Surgical Dressings	xxviii	FULLWOOD, E. J., & BLAND, Annatto	8	PRICE'S PATENT CANDLE CO., Ld., Glycerine Soap	26
BARKER, PABSON C., Chemists/Valuer	Col. Supp.	GALLEN MFG. CO., Surgical	xxxxvi	RAWORTH, J. E., Patent Agent	xxxxvi
BALDWIN MFG. CO., Ld., Toilet	28	GATES, LESLIE, Bottle Capping, Goldbeater's Skin	16	REDDORAY, BUTLER & CO., Liquid Paraffin	Cover
BALDWIN, QUININE FACTORIES, Quinine Salts	ii	GENOUX FRERES & CO., French Specialities	xix	RICHARD, C. D., Rubber Stamps	xxxx
BARKER, R., & CO., Chemicals	ix	GILBY, H. H., Hair Dressing	xxvii	RICHARD, C. D., Rubber Stamps	xxxx
BECHEM SHILLAN & CO., Chemicals	ix	GOODMAN G., Ld., Toilet	xxvii	ROBERTS, Ld., Toilet	28
BENTHAM, M., & SON, Toilet Prep.	18	GOUGH, KIDSTON & CO., Chemicals	xix	ROBERTS' PATENT FILLING MACHINE CO.	xxxxix
BELL (JOHN) & OBYDRN, Ld., French Feet Remedy	xxviii	GOWER, JOHN, Books (Secondhand, &c.)	Col. Supp.	ROLLIN CHEMICAL CO., INC., Chemicals	xiv
BELL, JOHN, HILLS & LUCAS, Ld., Specialities	Cover	GRANT, HUGHES & CO., Saccharine	28	ROQUES, FERDINAND, Fine Chemicals	xx
BELL, JOHN, HILLS & LUCAS, Ld., Specialities	Cover	GRAFF, E. F., & CO., Chemicals (Fine and Technical)	7	ROUSSEAU, BARNARD, Noddy	xxviii
BENBOW & BISH, Chemicals	Col. Supp.	GREEN, S. A., & CO., Chemicals (Fine and Technical)	7	ROUSSEAU, BARNARD, Noddy	xxviii
BISHOP, ALFRED, Ld., Effervescent Proprietaries	i	GRIFFIN, J. J., & SON, Ld., Tablet Machines	xxxxi	RUDDUCK & CO., Chemists/Respectings	Col. Supp.
BLADEN, VICTOR, & CO., Chemicals	xxxxviii	HARLEY, T., Proprietary Salt, Bat Polcon	20, xxxviii	SANGERS, Druggists/Sundries, Packed Goods	xiv
BLTHER, W. & CO., Ld., Drugs	xvi	HARRISON, A. F., & SONS, Chemists/Printing	xvi	SANITAS CO., Ld., Disinfectants	Text
BOAKE ROBERTS, A., & CO., Ld., Chemicals, Essences	25	HASTING, LANG & CO., Ld., Sweetening Tablets	xii	SCHWEPPE, Ld., Mineral Water	13
BOALDWIN, M., & CO., Ld., Chemicals	30	HILL, LAMUEL, Ld., Hair Cloth	xxxxvii	SHERRINE, Ld., Hair Dye	xxxxvi
BOND'S MARKING INK, & CO., Chemicals	ix	HOLMAN, J. A., ROCHE, CHEMICAL WORKS, Ld.	vi	SHERBROOK, E. & CO., Trustees	xix
BOWLEY, B. & SON, Paraffin Oils	xxiv, xxv	HOLLIDAY, L. B., & CO., Fine Chemicals	vi	SLOOGE, H., Drugs	xix
BREZET, J., & CO., Chemicals	viii	HOLT, THOMPSON & CO., Salicylic Acid	xii	SMITH, J. H., & CO., Fly-Catchers	29
BRITISH CELLULOSE & CHEMICAL MFG. CO., Ld., xvi		HOWARDS & SONS, Ld., Aspirin	iii	SMITH, MAURICE, & CO., Ointments	xxvii
BRITISH COMMERCIAL GAS ASSOCIATION	28	HUBBARD, T., & SON, Ld., Zinc Oxide	ii	SMITH, T. F., H. Ld., Alkaloids, Resins & Resinoids	xix
BRITISH DRUG & CHEMICAL CO., Ld., Proprietaries	32	HUTCHING, C. Ld., American Drug, Chemicals, &c.	xx	SPENCER, J. H., & CO., Chemicals, Ld., Oil of Live Oil	8
BRITISH PASTEUR-CHAI BERLAN, FILTER CO., x		INGRAM, FRED, & CO., Chemicals	Col. Supp.	SPRING & CO., Ld., Honey	8
BROTHERTON-RATCLIFFE & CO., Ld., x		ISAACS, I., & CO., Medical Glassware	Col. Supp.	SQUIRE & SONS, Ld., Pharmaceutical Proprietaries	Cover
BROWNING, JOHN, Microscopes	xxvii	JOB BEOS, Newfoundland Cod Liver Oil	27	STANDARD TABLET CO., Ld., Saccharin	Text
BURGE WARREN & RIDGLEY, Ld., Rubber Goods	xxxv	JOHNSON, A., & CO. (London), Ld., Drugs	ix	STEAD & CO., Photographic	Col. Supp.
BURGE WARREN & RIDGLEY, Ld., Rubber Goods	xxxv	JOHNSON, A., & CO. (London), Ld., Drugs	ix	STEAD & CO., Photographic	Col. Supp.
BURROUGHS, J. W., & CO., Acetylpyl Oil	19	JOHNSON, A., & CO. (London), Ld., Drugs	ix	SUTLEY & SILVERLOCK, Ld., Chemist/Printing	xxxx
BURROUGHS, J. W., & CO., Acetylpyl Oil	19	JOSEPH, PHILIP, Ld., Tablets	6	SWALES, THOMAS, Localia, Corn Plasters	xxxxii
BURROUGHS WELLCOME & CO., Ld., Tablets	19	JOSEPH, PHILIP, Ld., Tablets	6	SWISS BANK CORPORATION, Mercantile Banking	xiv
BURT, BOULTON & HAYWOOD, Ld., Disinfectants	Cover	KNOX-WALKER & CO., Ld., Shortening	xii	TANABE, MOTOSABURO, Chemical Thermometers	xxxxv
BURTON, BAKER & CO., & CO., "Glacialine" Preservative	13	KUNOW, S., & CO., Ld., Saline Preparation	17	THAMES CHEMICAL CO., Ld., Face Cream	xxxxvi
BURR, W. J., & CO., Ld., Chemicals, Essences, Perfumery	Cover	LANG, JULES, & SON, Medical & Chemical Glassware	9	THEVENAZ & CO., Dyes and Chemicals	18
BUTLER, H. & SON, Acetanilide, Aniline Dyes	viii	LANESEAVER, WICKSTEAD & CO., Ld., Tartaric Acid	xxvii	THOMPSON & NORRIS MFG. CO., Ld., Boxes and	
CADWY, Ld., Aromatic Waters	Cover	LEICESTER RUBBER CO., Ld., Rubber	xxxxiii	Corrugated Paper	9
CAMWAL, Ld., Aromatic Waters	Cover	LENNON, Ld.,		THOMPSON, J. L., & CO., Japanese Glassware	xxxxviii
CATLAIN, J. L., French Medical Proprietaries	vi	LENNOX FOUNDRY CO., Ld., Chemical Plant	xxxi	TIMPSON, JOHN, & CO., Ld., Liquors	xxxxv
CELESTINE FOODS CO., Foods	xxxxiv	LESCOL PERFUMERY CO., Perfumes, Soaps	26	TIMPSON, JOHN, & CO., Ld., Liquors	xxxxv
CHEMIST SUNDRIES, Ld., Rubber Goods	4	LEVYMORE, A., & CO., Ld., Chalk (Precipitated)	xxxxvi	TOLKOWSKY, S., Russian Crude Drugs, &c.	21
CHEMIST SUNDRIES MFG. CO., Chemicals and Preps	18	LIVINGTON, R. B., & CO., Ld., Liquors	xxvii	TOLMADO & CO., Japanese Chemicals, Drugs, &c.	xvi
CHESTER, A. D., & CO., Chemicals	18	LONBHOUSE & SALTMER, Ld., Horrie, Ashina Benzoin	14	TOPILIS & HARDING, Auctioneers, &c.	Col. Supp.
CHESTER & NORTH WALES COLLEGE	xi	LONBARC TRADING CO., Spanish Essential Oils	xxviii	TOWNSEND, J., & SONS, Chemists/Printing	xxxxvii
CHEOCLOIDS CO., Indigestion Tablets	xxiv	LONDON COLLEGE OF PHARMACY	x	TURNER BROS. ASBESTOS CO., Ld., Asbestos	xxxxii
CHRISTOPHERSON, C., & CO., Drugs	xii	M'GLASHAN, D., Fruit Drink	Col. Supp.	TURNER BROS. ASBESTOS CO., Ld., Asbestos	xxxxii
CHRISTY, T. & CO., Toilet Articles, Tartar Remover	xxxxvi	MACNAIR, A., & CO., Absolute Alcohol, S.V.M., S.V.M.	xxxxv	VELDT LABORATORY	28
CHURCH, J. R., & CO., Ld., Chemicals	18	MACNAIR, A., & CO., Absolute Alcohol, S.V.M., S.V.M.	xxxxv	VENESTA, Ld., T-mrol	22
COOE, E., & CO., Ld., Soap, Perfumery, &c.	xxvii	MAGNAN, MABEE & REYNARD INC., Essential Oils	xxi	VICHY CO., Mineral Waters	19
COOPER, SON & CO., Ld., Inhalers	xxxxvi	MALMBERG, K., Saccharin	xxiv	VIKING RENNET CO., Ld.	xxxxviii
COX, ARTHUR H., & CO., Ld., Pills, Tablets	1	MARTIN, W., Photographs	Col. Supp.	VIROL, Ld., Foods	Text
DALE, J. MFG. CO., Collapsible Tubes	30	MARTINDALE, W., Chemicals (Tech. and Fine)	Cover	WALD, THOS., & SONS, Chemists/Printing	xxv
DARSTON, F., & CO., Optical and Scientific Goods	xxi	MAWSON & CO., Capsules	vii	WAND MANUFACTURING CO., Pills, Tablets	xxiv
DARSTON, F., & CO., Optical and Scientific Goods	xxi	MEADE-KING, ROBINSON & CO., Petroleum Jellies	6	WARRINGTON CHEMICAL & DRUG CO., Salicylic Acid	xxviii
DAVIS, W. Windsor Display Stand	xxii	MEYER, W. H., Saccharin Tablets	Col. Supp.	WASHINGTON CHEMICAL CO., Ld., Magnesia Salts	Cover
DAY & SONS (Crewe), Ld., Veterinary Preps.	xxii	MILLAR, A., & CO., Ld., Orange Quinine Wine	xxx	WATFORD MANFG. CO., Ld., Vi-Cocoe	Col. Supp.
DEE OIL CO., Ld., Petroleum Jellies	19	MILNE, J. (Wigan)	Col. Supp.	WEST-REND PHARMACY SUPPLY, Capsules, Capsules	xxxxvi
DEGEN, F. A., Advertising	xi	MOND NICKEL CO., Copper Sulphate	xx	WESTERN DENTAL CO., Sociol	xxxxvii
DENTAL JELLYS & CO., Saccharin	xxi	MORSANTO CHEMICAL WORKS, Glycerophosphates	xiv	WESTMINSTER COLLEGE OF PHARMACY	xi
DEBORITE, Ld., Japer	2	MORSON, THOMAS, & SONS, Ld., Chemicals	xiii	WHITFEN & SONS, Ld., Emetine Salts, Quinine, &c.	x
EDWARDS, W., & SON, Proprietaries, Sundries	2	NORTH, V. C., & CO., Acetic Anhydride, Phenacetin	ix	WILKIN, C., & CO., Ld., Bings and Chemicals	16
ELEY BROS., Ld. Nickelled Shaving Stick Tubes, &c.	24	PERKINS, G. B., & SONS, Starch Powder, Linacett	ix	WHITE, J., & J., Blochromates	ix
ELLIOTT OPTICAL CO.	xx	PERKINS, G. B., & SONS, Starch Powder, Linacett	ix	WHITE, J., & J., Blochromates	ix
ELLISON, H., Ld., Disinfectants	xxxxvi	PERKINS, G. B., & SONS, Starch Powder, Linacett	ix	WHITE, J., & J., Blochromates	ix
ELLISON, H., Ld., Disinfectants	xxxxvi	PERKINS, G. B., & SONS, Starch Powder, Linacett	ix	WHITE, J., & J., Blochromates	ix
EMPIRE PERFUMERY CO., Henna Shampoo	18	NATURAL FOOD CO., Ld., Foods (Special)	8	WHITE, J., & J., Blochromates	ix
EVANS SONS LEBROER, WBBB, & CO., Chemicals	18	NEWMAN, H. & C., Liqueur Tonic	xxv	WHITE, J., & J., Blochromates	ix
EVAN WILLIAMS CO., Henna Shampoo	16	NORTHERN TIN CANISTER WORKS, Tin Boxes	30	WHITE, J., & J., Blochromates	ix
FABBA CO., Ld., Chemicals	viii	OLDFIELD, PATINSON & CO., Pharm. Preps.	14	WHITE, J., & J., Blochromates	ix
FABRI, CHARLES, Biscuits, Spermaceti, White Oils	10	PAGE, CHAS., & CO., Chemicals	xxv	WHITE, J., & J., Blochromates	ix
FABRY & JACKSON, Ld., Asbestos Filters	xxxxviii	PAGE, CHAS., & CO., Chemicals	xxv	WHITE, J., & J., Blochromates	ix
FALLOWS MANUFACTURING CO., Syringe	xxiii	PAGE, CHAS., & CO., Chemicals	xxv	WHITE, J., & J., Blochromates	ix
FALLOWS MANUFACTURING CO., Syringe	xxiii	PAGE, CHAS., & CO., Chemicals	xxv	WHITE, J., & J., Blochromates	ix
FERRY, T., & SON, Ld., Medical Glassware	xxv	PAGE, CHAS., & CO., Chemicals	xxv	WHITE, J., & J., Blochromates	ix
FIELD, J. O., & J. Ld., Toilet Soap	20	PAGE, CHAS., & CO., Chemicals	xxv	WHITE, J., & J., Blochromates	ix

Alteration of Prices to Retail Distributors of  
**JOHN BOND'S**  
**"CRYSTAL PALACE" MARKING INK**

**6d. size, 3/8 per dozen. Minimum protected selling price, 5d.**

1/ 6/6 " " " " 9d.

**This will show retailers a still larger profit on the 6d. size of no less than**

**43%. The rate of Profit on the 1/- size will remain the same.**

Minimum order at Wholesale rates, one Gross of 6d. size amounting to 37/- or assorted order to same value + 1/- size 68/- per Gross. Carriage paid on parcels of £5 and upwards. Smaller quantities should be ordered through any of the Wholesale Houses. When ordering, please specify if Heat or Non-heat is required.

**Q. A good assured minimum profit on *this* Marking Ink which will always make new customers. Q. Compare with what you are paying for other makes, and NOTE the difference. Q. Retailers need not fear with *this* make competition by cutters.**

**Manufactory :—75 SOUTHGATE ROAD, LONDON, N.1.**



# JOHNSON'S

## PHOTOGRAPHIC CHEMICALS.

AMIDOL—JOHNSON, METOL—JOHNSON, AZOL—The Active Developer,  
HYDROKINONE, ACID PYROGALLIC, POTASS. BROMIDE,  
SODA SULPHITE, SODA CARBONATE, AMM. SULPHOCYANIDE,  
&c. &c.

DEVELOPERS, TONINGS, &c., for AMATEUR TRADE,  
Packed in CARTRIDGES, PACKETS, SCALOIDS & SOLUTIONS.



MOUNTANT. FLASHPOWDER.  
VARNISHES.

JOHNSON & SONS, Manufacturing Chemists, Ltd.,  
Cross Street, Finsbury, LONDON, E.C. 2.

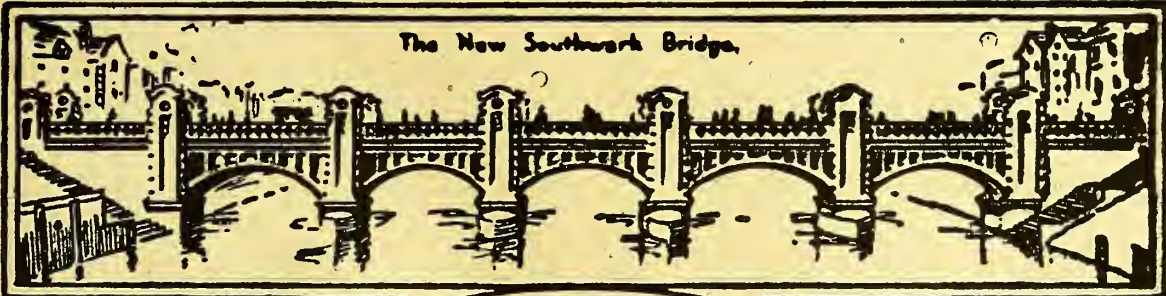
# Petroleum Jelly

White, Yellow, Amber,  
& Ruby Red, for all  
Pharmaceutical and  
Veterinary purposes

MEADE-KING, ROBINSON & CO.  
LIVERPOOL . . . MANCHESTER



The New Southwark Bridge.



# BRIDGE BRAND

## PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

*R. W. GREEFF & CO. offer at lowest prices the following products  
manufactured in the United Kingdom, Allied and Neutral Countries*

(WHOLESALE QUANTITIES ONLY)

Acetanilid  
Acetyl Salicylic Acid  
Amidopyrin  
Barbitone  
Benzoic Acid  
Benzoate of Soda  
Benzamine Hydrochlor  
Beta Naphthol  
Bromide of Ammonium  
Bromide of Potassium  
Bromide of Sodium  
Chloral Hydrate  
Cinchonine and Salts  
Cinchonidine and Salts  
Citric Acid  
Cocain Hydrochlor and  
Puriss  
Cream of Tartar

Creosote Carbonate  
Formaldehyde  
Gallic Acid  
Guaiacol Carbonate  
Heliotropin  
Hexamine  
Homatropine  
Hydroquinone  
Isarol (best Ichthyol  
substitute)  
Lithia Carbonate  
Lithol (Ichthyol substitute)  
Mercurials  
Methylene Blue Medicinal  
Methyl Salicylate  
Peppermint Oil  
Phenacetin  
Phenazone

Pyrogallic Acid  
Potassium Sulpho-  
Guaiacolate  
Quinidine and Salts  
Quinine and Salts  
Quinine Ethyl Carbonate  
Salicylic Acid  
Salicylate of Soda  
Salol  
Sugar of Milk  
Tannic Acid  
Tannin Albuminate  
Terpineol  
Terpine Hydrate  
Theobromine  
Thymol Crystals  
Vanillin

**R. W. Greeff & Co.** THAMES HOUSE, QUEEN ST.  
PLACE, LONDON, E.C.

MANCHESTER BRANCH:  
Lloyds Bank Buildings,  
King Street.

NEW YORK AGENTS:  
R. W. Greeff & Co.,  
80, Maiden Lane.



THAMES HOUSE.







TRADE MARK

ESTD. 132 YEARS.

**A BRITISH FIRM**  
WITH BRITISH PARTNERS.

**R. J. F. & B.'s**  
**Annatto, Rennet and**  
**Butter Colour**  
have the **Largest Sale**  
in Great Britain.

R. J.

**FULLWOOD & BLAND'S**

**ANNATTO** "STAG"  
Brand

"DAIRY"  
Brand

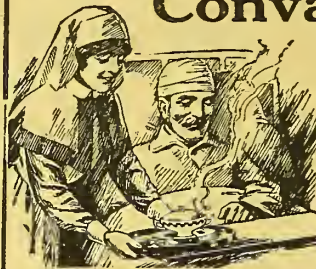
**RENNET**

**Rennet Powder. Essence of Rennet.**

**BUTTER COLOURING.**

Manufacture and Offices—  
31, 33 & 35 Beviden Street, Hoxton, London.  
Rennet Factory—Ellesmere, Salop.

## Recommend it for Convalescence



Doctors prescribe  
Turtle Soup in all  
cases where the  
patient cannot  
retain any other  
nutriment.

## FREEMAN'S REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles,  
compressed into handy tablets; it provides  
all the delicacy and nourishment of soup made  
from fresh killed turtles, and is quickly pre-  
pared as it requires nothing but boiling water.

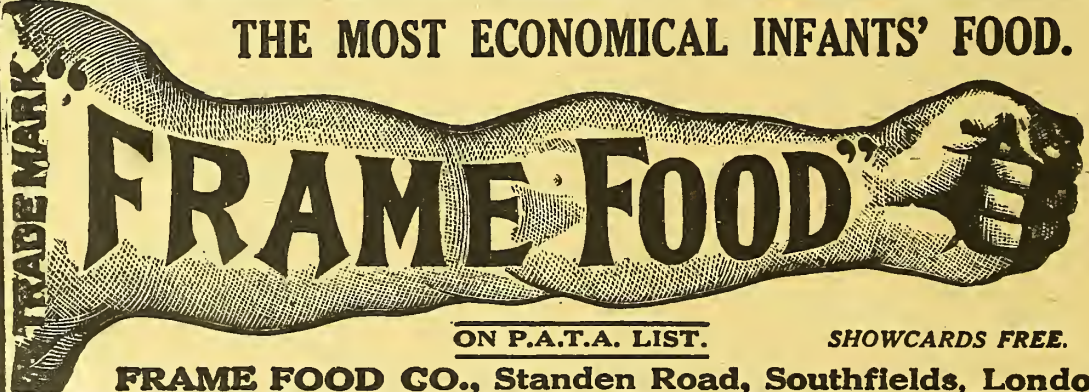
For hospitals, nursing and convalescent  
homes it can be strongly recommended as  
the best, safest and  
handiest invigorator  
obtainable.

The trade terms are par-  
ticularly favourable, and  
particulars can be obtained  
by writing to

The Watford Mfg. Co. Ltd.  
Defectaland, WATFORD

*Freemans*  
FOOD PRODUCTS  
*Watford*  
S.A.A.

## THE MOST ECONOMICAL INFANTS' FOOD.



ON P.A.T.A. LIST.

SHOWCARDS FREE.

**FRAME FOOD CO., Standen Road, Southfields, London.**

## Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND  
PROTECTED PRICES.

Food for Babies, Prepared Barley,  
N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

### SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in  
stock; if for any reason you have difficulty in obtaining supplies, please  
send postcard direct to us, and a list will be sent to you by return.

**NATURAL FOOD COMPANY, Ltd.,**  
**Cambridge Road, Bethnal Green, LONDON, E.**

All advertising matter—Booklets, Window Displays  
Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price  
List we issue to the trade, and we are pleased to exchange any article  
which may be out of condition.

## SPRING'S

PACKED TABLE

## HONEY

All Varieties i.e., "White Clover," "Heather," etc.

**SPRING & CO., Ltd., BRIGG, LINGS.**

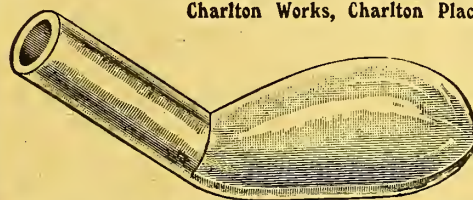
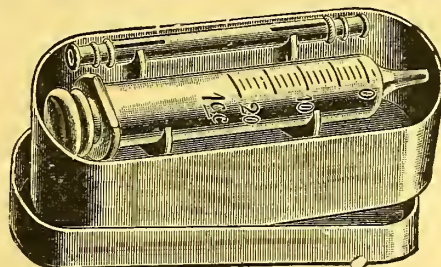
(The Largest Collectors and Packers of Honey in Gt. Britain)

Limited Supplies Available.



FINEST  
QUALITY*Norwegian*MEDICINAL  
NON-FREEZING**COD LIVER OIL****ISAAC SPENCER & CO., (ABERDEEN) LTD.,****ABERDEEN,**  
SCOTLAND.

We are making Lamp-blown Glassware, such as Ampoules, Hypodermic Tubes, &c., in England. Let us have your inquiries. You will find our prices competitive and our deliveries smart. Besides we also have varied stocks of Glass Bottles. *Send us your inquiries and ask for our Stock List.*

**JULES LANG & SON**Charlton Works, Charlton Place, ISLINGTON,  
LONDON, N.Sole  
Proprietor:  
**FERNAND  
RENE LANG.**

Telegrams: "Assorted, Nordo, London." Telephones: North 1344.

# CORRUGATED PAPER

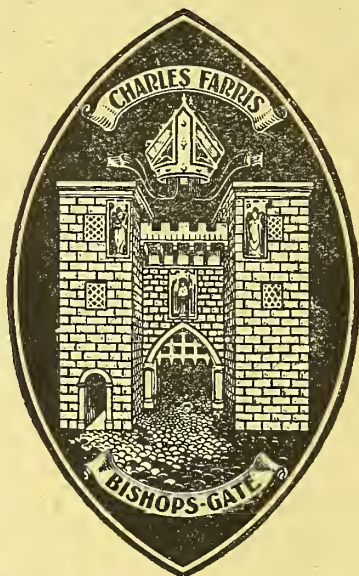
in rolls, sheets  
and cartons

# BOXES

in Cellular Board and Corrugated Paper

**THE THOMPSON & NORRIS MANUFACTURING COMPANY, LTD.**  
of Warple Way, London, W.3 (& Brooklyn, Boston, &c., U.S.A., & Montreal, Canada)  
invite inquiries from manufacturing and dispensing chemists; samples free.





**FARRISOL**

— ENGLISH MADE —

**White  
Medicinal Oil,  
B.P.**

(PARAFFINUM LIQUIDUM).

**Guaranteed to exactly conform to B.P. tests.**

RECOMMENDED AND ADOPTED BY THE HIGHEST MEDICAL AUTHORITIES.  
ABSOLUTELY ODOURLESS AND TASTELESS.

Consumers should insist upon a thorough test, as there are so-called white oils on the market which lack the pure ingredients and the special treatment absolutely essential to produce the B.P. article. By purchasing from Charles Farris you secure the guarantee of an old-established House and complete satisfaction.

Bees Wax, Spermaceti, Tallow, Paraffin Wax, Candles, Lubricating Oils.  
Insulating Fluid and Wax. Refiner of Oils for the fine Clockwork of  
Telegraphic Instruments. OIL REFINER TO H.M. GOVERNMENT.

**Large Stocks always Ready for Immediate Delivery.**

The only actual Manufacturing Wax Chandler and Oil Refiner in the City of London.

**CHARLES FARRIS, <sup>71</sup> BISHOPSGATE, LONDON, E.C.**

**Works—HELMET COURT, BISHOPSGATE, E.C.**

**Warehouses & Stores—91 & 93 BISHOPSGATE, and 12 WORMWOOD STREET, E.C.**

Telephones—London Wall 9397 & 9398. Telegrams—"Waxiness, Led, London."



TELEPHONE,  
CITY 7  
PRIVATE  
BRANCH  
EXCHANGE

TELEGRAMS  
ELEVEN  
CENT  
LONDON

# Maw's Page

S MAW SON & SONS LTD  
(G.P.O. BOX No 54)  
7-12 ALDERSGATE ST  
LONDON E.C.I.



NUMBER 342

MAY, 1918

CABLES  
ELEVEN  
LONDON

CODE  
A.B.C.  
4th & 5th  
EDITION

All sizes of Cones  
in Boxwood Cases  
are kept in stock.

RETAIL FROM  
**2d. to 1/-**

We will make the  
selection if you let  
us know the retail  
price required.

## MAW'S "OAK." BRAND MENTHOL CONES.

ACTUAL SIZES.

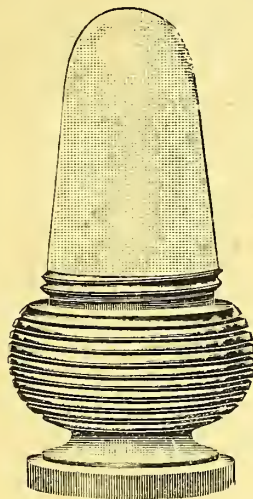
Full-sized Acorn  
Cones in highly  
polished Boxwood  
Cases.

Pharmacists who  
**KNOW**

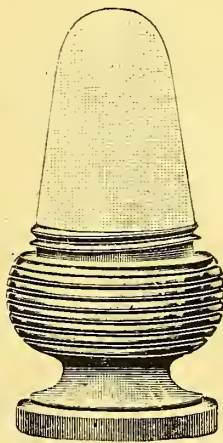
stock only the  
brand of Menthol  
Cones which bear  
the name of  
MAW — QUALITY.



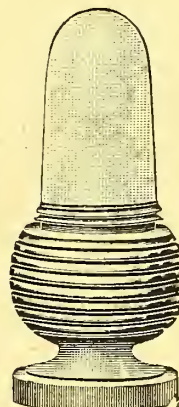
No. 3 ... 7/6 doz.



No. 2 ... 5/6 doz.



No. 1 ... 3/6 doz.



HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

CLOSE AT 1 p.m. SATURDAYS.



*A Good Line  
and all British*



## AQUAPERIA

A Harrogate  
Aperient Water,  
supplanting German  
and Austrian Waters.  
It will be found a very pro-  
fitable line, satisfactory both  
to Chemist and Customer.

Bottled by CAMWAL Ltd.  
at their Spring,  
**HARROGATE.**

Of all Wholesale Houses and

**CAMWAL Ltd.**

LONDON    MANCHESTER    BIRMINGHAM  
BRISTOL    HARROGATE    MITCHAM  
                 & DEPOTS.

***Aquaperia***  
*A Harrogate Aperient Water*



# "GLACIALINE"

**The Original and Most Effective Food Preservative**

The only Food Preservative that has ever been publicly awarded Gold and Silver Medals and Certificates of Merit for Purity and Harmlessness.

TRADE MARK



REGISTERED.

Full directions for use enclosed in every package.

Packed in 6d. and 2/- Packets and 2/3 Canisters.

FAVOURABLE TRADE TERMS UPON APPLICATION TO THE

Sole Proprietors and Manufacturers:

**BURTON, BAKER & CO.**  
16 EASTCHEAP, E.C.3.

OVER 40% PROFIT.

# RELENTA

THE BRITISH APERIENT WATER.

**12/- PER DOZEN.**

Carriage paid on full and empties.

2/- per doz, allowed for empty bottles.

5% discount Monthly settlement.

FIXED RETAIL PRICE—

1/6 per bottle (P.A.T.A.)

**SCHWEPPE'S Limited,**

SOLE PROPRIETORS.

LONDON—Vauxhall Walk, S.E. 11.



**THE FRENCH** NATURAL MINERAL WATER.

**VICHY-CÉLESTINS**

**DISORDERS of the LIVER, GOUT,**  
**Diabetes, Rheumatism, Gravel, &c.**

**VICHY-ETAT PASTILLES.**

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the SOLE AGENTS: INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.



**OLDFIELD, PATTINSON & CO.**

TELEGRAMS: "OPIUM MANCHESTER."

TELEPHONES: CITY 984 & 4038.

A RELIABLE HOUSE FOR  
**All Pharmaceutical Preparations**

CONCENTRATED WATERS.  
CONCENTRATED INFUSIONS.

**Syr. Glycerophosph. Co.**

LIQUID EXTRACTS.  
LEVIGATED OINTMENTS.  
ESSENTIAL OILS.

**"Silver Churn" Dairy Specialities.**

Special Prices to Large Buyers.

Write for List.

**MANCHESTER.**

**LOFTHOUSE & SALTMER, Ltd.**

Wholesale & Export Drug Merchants,  
— Manufacturing Chemists —

**HULL.**

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	9d.		6/6
* " " " " " "	1/6		13/-
* " " " " " " bottles in cartons	2/-		16/-

*\*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

**LOSALL'S COMPOUND SULPHUR SOAP.**

A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box @ 8d.	Box. 2/-	Doz. 18/-
--	-------------	--------------

**I apologise—**

for the delay in the delivery of

**ANZORA CREAM  
and Anzora Viola**

to many of my customers.

The demand has developed to such an enormous extent during the last few months that my premises have been outgrown, but I have been fortunate in obtaining further accommodation and look forward to bringing delivery up to date very shortly.

I thank you for the way in which you have fostered the sales of Anzora Cream and Anzora Viola, the preparations that effectually

**Master the Hair**

*Charles Sinclair Lewis*  
Proprietor

**ANZORA PERFUMERY CO.**

28, 32, 34 Willesden Lane, London, N.W. 6.



# 1868 to 1918

## *“Still achieving, still pursuing”* *Longfellow*

Ayrton's service, after 50 years of achievement and pursuit, means:

Reliable Products at Competitive Prices.

Modern Labels that will do your Pharmacy credit.

Your own name and address on your own good goods.

The most extensive and distinctive range of Salescards at your disposal, without charge.

The solution of many of your book-keeping difficulties, because the “Ayrton” service includes practically everything the Pharmacist handles.

The Goods are sent to you Carriage Paid when the order amounts to 50/- and over and your Pharmacy is situate in any part of Great Britain and Ireland.

Ayrton's service embodies the reliability of yesterday with the push, go, and prevision of to-day. It is a service you ought to link up with. Let us quote you for something!

AYRTON, SAUNDERS & CO. L<sup>TD</sup>  
LIVERPOOL

Make a point of  
looking at Page 15  
regularly!





## The Evan Williams' Original Henna Shampoo

APPEALS ESPECIALLY TO WOMAN—THE GREATEST SPENDING FACTOR OF THIS COUNTRY.

Put Evan Williams' Original Henna Shampoo on your counter and watch how quickly it sells, this is because our advertisements continually bring this dainty and perfect shampoo before ladies' notice, and once a sale is secured, its perfection ensures a steady permanent demand.

Ladies repeatedly write us asking for names of local agents, and it will pay you to stock this quick-selling proposition. Our Special Campaign of Publicity is now in full swing—this includes Press, Postal and Window Advertising, and aims to attract Ladies to your establishment. Write to-day for full particulars of our special discount offer.

# EVAN WILLIAMS' ORIGINAL Henna Shampoo

THE EVAN WILLIAMS CO. LTD., 18 & 18a Ogle Street, Foley Street, London, W. 1. (2)

# 10d



Make your old Hat a new one.

In bottles, 10d. each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

**NO GLOSS. NO POLISH.**

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS, ALSO LEAFLET OF TESTIMONIALS.

# "Luton" HAT DYE

**WHITAKER & CO., COLOUR WORKS, KENDAL, ENG.**  
London Depot: 60-62 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired. Est. 1878  
Special Non-Inflammable Series for Export.  
Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

**IMMEDIATE DELIVERY**

# GATES' BOTTLE CAPPING SKINS



**SNOW-WHITE OPAQUE ROLLED SKINS.**

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."



Sole Pioneer and Only English Manufacturer:

# LESLIE GATES,

3 & 14 Nightingale Road, Clapton, E. 5.

Telegraphic Address: "Englishism, Lowclap, London."  
Telephone: Dalston 1207.

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.



# Important Notice

## INCREASE OF PROFIT TO CHEMISTS

As stated in the Protected List of THE P.A.T.A.  
the MINIMUM RETAIL SELLING PRICE of

# Kutnow's Powder

IS NOW  $2/9$  PER BOTTLE (FACE VALUE)

This yields a considerable increase of profit to chemists, nevertheless Messrs. KUTNOW are keeping to their wholesale price, as hitherto, in spite of the enormous rises in the cost of all the materials, bottles and everything else in connection with the manufacture of KUTNOW'S POWDER. In view of the above facts, Messrs. KUTNOW trust that both the wholesale and retail trade will co-operate with them in creating a still greater demand for KUTNOW'S POWDER, and that no substitutes for KUTNOW'S POWDER will be offered to the public in future.

### Replenish Your Stock

The public want the best in business, the best in art, the best in literature, the best in everything that lies within their means. The successful business man caters to supply what the public demand. Kutnow's Powder is one of the best morning aperients extant. It is in constant demand all over the world, and no remedy holds a firmer position in the estimation of the public and the medical profession. A window show of Kutnow's Powder is always remunerative. It attracts attention and sells itself without any trouble.

### SEND THIS COUPON FOR SHOWCARDS FREE OF CHARGE

To S. KUTNOW & CO., Ltd.,  
41 Farringdon Road, London, E.C. 1.

Please send me Showcards, carriage paid.

NAME.....

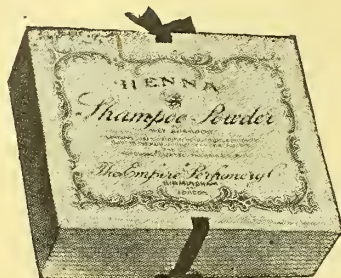
ADDRESS.....

"Chemist & Druggist," May 4, 1918.

**S. KUTNOW & CO., Ltd., 41 Farringdon Road, London, E.C. 1.**



# THE "EMPIRE" HENNA SHAMPOOS



The box of 7.

Prices: Loose, 13/- per gross packets.  
Box of 7, 8/- per doz.

*Special Quotation to the Wholesale and Export trade.*

**THE EMPIRE PERFUMERY CO.,**  
**CUXSON, GERRARD & CO., Ltd., Proprietors,**  
**Oldbury, England.**

are made with a Potash Soap base, therefore the hair is left very soft and wavy. The perfume is so delightful that repeat business is assured.



The Sales-Compelling Showcard.

## Vaseline

Trade Mark Registered

### PREPARATIONS.

IN consequence of the Government requiring all the space on steamers leaving New York for England, we have been unable to obtain our usual supplies, although there are large quantities of goods awaiting shipment at our factory, and will be forwarded as soon as accommodation can be secured on outgoing steamers from America.

Unfortunately, owing to enemy action, several large consignments have been entirely lost at sea, hence temporary shortage of some of our preparations. We are, therefore, compelled to ask the indulgence of our customers in the meantime for any delay or inconvenience that may arise under the circumstances stated, which are, of course, beyond our control.

**Chesebrough Manufacturing Co.**

42 HOLBORN VIADUCT,  
LONDON, E.C. 1.

BE SURE AND ADD

## La-Rola

## Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

**Do not lose the business  
through being out of stock.**

It is the most natural tint on the market, and is selling well wherever introduced.

**Lait La-Rola & Glycerine & Cucumber  
supplied as usual.**

All these articles are protected at FACE VALUE.  
Write for Display Terms and save 10%.

**M. BEETHAM & SON, Cheltenham.**



## Important to the Trade

### Pomeroy Skin Food

can be  
obtained  
as before—

there never  
has been any  
real  
difficulty.

Several letters—accompanied by orders—have been received from ladies who state they were informed by their Chemists that Pomeroy Skin Food was not now obtainable.

We do not know how this impression has got abroad, but it is quite erroneous.

Pomeroy Skin Food and most other Pomeroy preparations can be obtained from Sundries Houses and direct, as before. Any trifling delay—and when it occurs it is trifling—can be put down to the vastly increased demand and the extra time taken nowadays in transit.

**Mrs. POMEROY LTD.,**  
115 Harwood Rd., Walham Green  
London, S.W.

## EUCALYPTUS OIL (RECTIFIED).

Eucalyptol Content ... .. 70/80 %  
Optical Rotation ... .. 0 to 1  
Specific Gravity ... .. '919 to '928  
Absolutely Free from Phellandrene.  
Quotations by cable. Wholesale Trade only.

### BURNSIDE & COMPANY

Eucalyptus Oil Distillers,

### VICTORIA, AUSTRALIA.

New Postal Address— Cables—"Burnside Company,"  
439 Flinders Lane, Melbourne. Melbourne.

## PURE ESSENTIAL OIL OF HOP.

PRICE AND INFORMATION  
FROM THE DISTILLERS:

### WHITE, TOMKINS & COURAGE, Ltd.

Head Office:

48 Mark Lane, LONDON, E.C. 3,  
and at LIVERPOOL, BELFAST, BOSTON.

## Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow  
and golden, for pharmaceutical  
purposes.

MANUFACTURED SOLELY BY

### The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs, and smaller  
packages according to requirements.

Inquiries are solicited for this article  
of **BRITISH MANUFACTURE**, and  
buyers may rely that for quality and  
price it will meet any competition.

Other Grades  
**Petroleum Jellies, White Bases, &c.**  
Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

'Phones: 186 Bootle. Wires: "Cestrian Liverpool."

# FIELD'S "SIANARA" Toilet Soap

(Regd.)

With the Enchanting Perfume of OLD JAPAN.

A SUCCESSFUL NEW LINE,  
SUPPLIED IN  
**STANDARD 4d. SIZE & SHAPE**  
ALSO  
**4d., 5d., 6d., & 7d. ROUND BATH.**

Let us quote you for your Proprietary Soaps.

**J. C. & J. FIELD, Ltd.,** Toilet Soap Experts. **LONDON, S.E.1.**

Telegrams: "OZOKERIT, PHONE, LONDON."

ESTABLISHED 1642.

Telephone: HOP 3905.

## UGLY BLACK MONSTERS

are what our Boys at the Front call the rats, and at home they eat your bread ration. Remove them with

**"RODINE,"**

it is the rat poison that gives satisfaction to seller and user.

SOLE MAKER:

**HARLEY,** Manufacturing Chemist, **PERTH, Scotland.**

Export Agents:

**TOZER, KEMSLEY & MILLBOURN, LTD.,**  
 84 Fenchurch Street, London, E.C.



## ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE YET PRODUCED

IS MANUFACTURED BY

**THE PHARMACEUTICAL LANOLINE CO.**

**7 Carnwath Road, Fulham, London, S.W.**

WHO INVITE INQUIRIES.



## A SELF-SELLING LINE.



## The Safest

**and Most Effective.**


**A concentrated compound of Soft Soap, Nicotine, Quassia, Liver of Sulphur, correctly proportioned according to scientific research and experiment.**

# The Indispensable SPRAY for FRUIT TREES, POTATOES, ROSES, &c.

This Compound is also put up in Liquid form for use where hot water is not available;

Sold in 1-lb. tins at **18/-** per doz.      Retail price **2/-** per tin.  
 ½-pt. bottles at **12/-** „      „ „ **1/4** „ bot.

*Subject to usual terms.*

 Owing to abnormal demand for this preparation this season, the trade is earnestly urged to place orders immediately. Orders will be dealt with in rotation.

**EDWARD COOK & CO., Limited,**  
BOW, LONDON, E. 3.

# Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/-

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

**Introductory Offer. Cost £2; Retails 60/-—Profit 20/-.**

½ Doz.	Ingram's Milkweed Cream	...	...	Retails 2/-	Price 8/-
½ Doz.	" Velveola Souveraine (Face Powder)	"	"	2/-	" 8/-
½ Doz.	" Zodenta Paste for the Teeth	"	"	1/-	" 4/-
¼ Doz.	" Rouge, Light, Medium, Dark	"	"	2/-	" 4/-
½ Doz.	" Perfume, 1 oz. assorted in fancy packages	...	...	4/-	" 16/-
100 Guest Room Packages free.					£2

**Shipped via Parcel Post Prepaid.**

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885)  
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.



Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

## BRITISH MADE TIN FOIL

Highly polished foils—printed, lacquered, embossed or plain. Guaranteed free from lead for tobacco, cigarettes, food-stuffs, etc. In sheets or reels—large or small quantities.

Also collapsible tubes in pure tin, pure lead or lead-coated with tin for rubber solution, artists' colours, tooth pastes and other toilet preparations.

Manufactured by

**Venesta Ltd.**  
1. Great Tower St. Ec.  
London  
England



**LABORATORY  
OF GENERAL PHARMACOLOGY,  
8, Rue Vivienne, Paris.**

**LONDON AGENTS :  
WILCOX, JOZEAU & Co., 49, Haymarket, S. W.**



**CHAPOTEAUT'S  
CAPSULES of  
PHOSPHOGLYCERATE  
of LIME.**

**THE BEST TONIC FOR  
FORTIFYING AND BUILDING UP  
THE NERVOUS SYSTEM.**

*Sold by all Chemists.  
Wholesale: 8, Rue Vivienne,  
PARIS.*

**MORRHUOL CHAPOTEAUT**



**CAPSULES**

MORRHUOL DE CHAPOTEAUT  
is extracted from cod-liver oil, and  
contains all its efficacious prop-  
erties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,  
restores the appetite, and gives force to  
feeble persons.*

**SOLD BY ALL DRUGGISTS.**

**CHANDRON'S  
DROPS**

**(Gouttes des Colonies)**

**A harmless antiseptic  
preventative against CHOLERA-  
FERMENTATION - INDIGESTION  
& other intestinal disturbances.**

**SOLD BY ALL CHEMISTS**

*I find the odor exquisite and  
well as charming & have called  
it my own. Very sincerely  
Mary Garden*

**PARFUM  
MARY  
GARDEN  
RIGAUD  
PARFUMELIR  
16, RUE DE LA PAIX  
PARIS.**

**LONDON AGENTS  
HEPPELL & CO., 164, Piccadilly, W.**





**TITTERTON'S**  
CELEBRATED  
**HAIR BRUSHES**

**GOOD PROFITS**  
are made by selling  
**TITTERTON'S**  
CELEBRATED  
**BRUSHES**  
(Hair, Tooth, Nail & Shaving Brushes).

They have a world-wide reputation for excellence of quality, and perfection of workmanship. Should be stocked by all Chemists desiring to give the public the best value for money.

**TITTERTON & HOWARD,**  
Brush Manufacturers,  
8 & 10 Great Titchfield St., London, W.

FOR LARGE BUYERS.

## Vanishing Creams

Bulk or Packed.

Also Brilliantines, Toilet Paraffins, Lime Creams, Pomade Hongroise, Tooth Powders, Dental Creams, Shampoo Powders, and All Toilet Goods.

LOW PRICES for  
HIGH QUALITY.

**STOKES & CO., Ltd.**

Manufacturing Chemists and Perfumers,  
31-35 Lower Castle, BRISTOL.

(1)

## ELEY BROTHERS, LIMITED

specialise in the manufacture of the following articles at the lowest prices:

### Shaving Stick Cases

### Oval and Round Tops

for Powder Tins, Cruets, Dredgers, etc.

### Metal Boxes

for Dentifrices, Soap Tablets, etc.

### Ferrules

for Walking Sticks, Whips, Bamboo Fittings, etc.

### Pencil Fittings

in any of the following metals: Brass, Copper or White-metal (nickel or silver-plated), Aluminium and Jewellers' Metal (Tombac).

*During the continuance of the War we cannot undertake orders to make any of the above goods requiring one or more of the metals for their manufacture of which the use for commercial purposes has been prohibited by H.M. Government; but we invite inquiries, as we still have some articles in stock which were made before the prohibition was issued.*

**ELEY BROTHERS, Ltd.**

(Dept. 21), Edmonton, London, N.





The Finest Quality  
Aerated Waters are  
made only with  
the Finest Quality  
**ESSENCES**

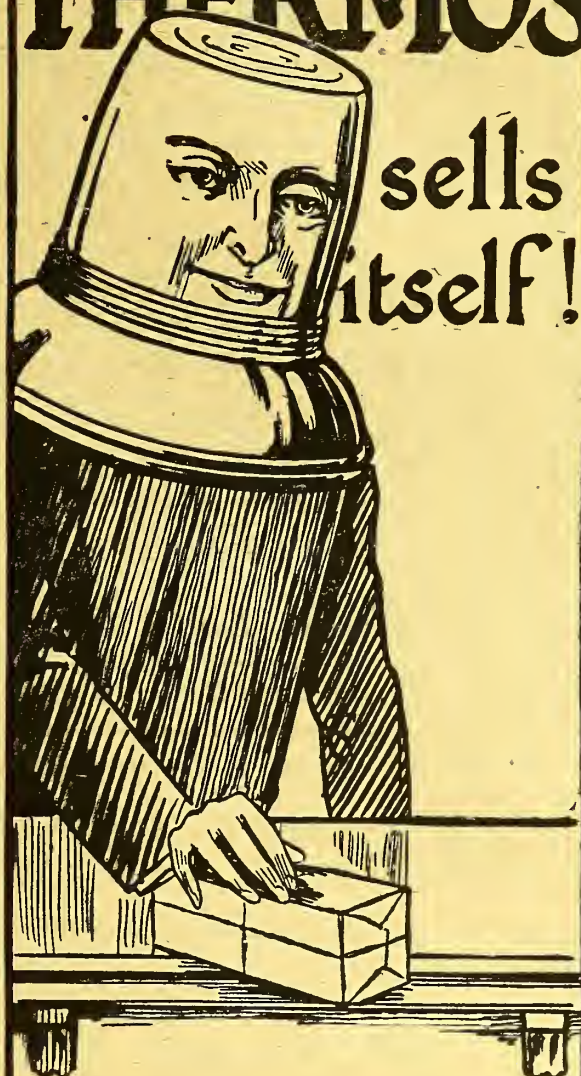
**Boake  
Roberts'**

Soluble Essences are  
of the finest quality  
and being extremely  
concentrated are  
most economical

<b>Lemon</b>	<b>Ginger Ale</b>
<b>Orange</b>	<b>Stone Ginger (Cloudy)</b>
<b>Ginger</b>	<b>Clear Ginger Beer</b>
<b>Raspberry</b>	<b>Kola Champagne</b>
<b>Strawberry</b>	<b>Lime Juice and Soda</b>
<b>Pineapple</b>	<b>Lemon Squash</b>
	<b>Vanilla</b>

**A. Boake Roberts & Co. L<sup>td</sup>.**  
Stratford, London.

# THERMOS



THE name THERMOS has slipped into the language because it is the name of a useful and valuable thing. A thousand times a day the name is spoken in conversation; it makes dozens of appearances each day in print, not alone in our extensive advertising but in the news and literature of every kind.

You do not have to force sales of the genuine THERMOS, it sells itself and makes money for you. Link up with this valuable selling force by discarding imitations and selling the genuine article.

*Catalogues, etc., on request.*

**THERMOS, LTD.**

Byron House  
2 & 4 Finsbury St.  
LONDON, E.C. 2.



# Springtime is skin-time

You will be asked for a skin soap that's good and reliable—an article you feel you can honestly recommend. How will you meet this spring-time need? On your counter and in your window "**Cutolav**" is certain to attract and sell. A good, honest, antiseptic toilet article,

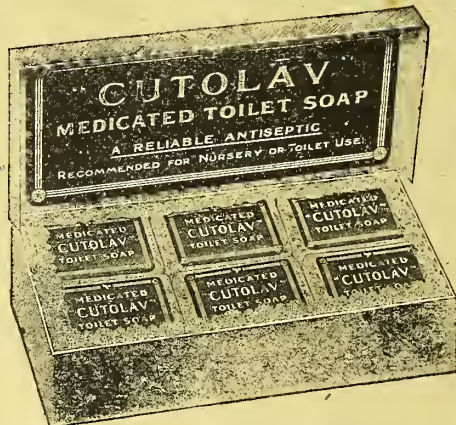
## PRICE'S CUTOLAV Medicated Toilet Soap

is reasonable in price and *profitable to you*. "**Cutolav**" is a superfatted soap, ideal for nursery and toilet—the soap you'll be asked for in the spring.

A useful soap for our fighting men.

SEND US A CARD.

**Price's,**  
Battersea, London, S.W.11.



# "LESCOL" FLORAL PERFUMES

## NOTICE !

*We strongly advise Chemists before purchasing their Toilet Specialities to send us particulars of their requirements, and complete Price List will be sent, or one of our representatives will call with full set of samples when in their vicinity.*

We are holding a large stock at remunerative prices

## LESCOL PERFUMERY CO.,

Lomond Grove, Camberwell Green,  
LONDON, S.E. 5.

Telephone: 810 HOP.

(Proprietors: The London Essence Co.)

Telegrams: "VANILLIN, CAMBER. LONDON."



# SAVE 3/- PER GALLON

BY BUYING

## GUARANTEED GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

### OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

**WHOLESALE ONLY.**

*Kindly write for sample to*

## JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

### W. DAVIS

106 WOOD ST., E.C. 2

Phone: CITY 5220

**For OPEN  
WINDOW  
DISPLAYS.**



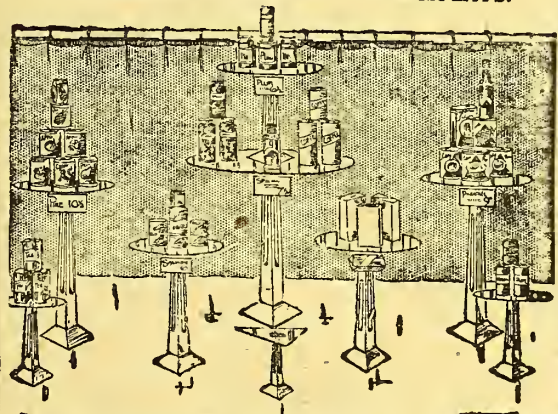
### W. DAVIS

106 WOOD ST., E.C. 2

Phone: CITY 5220

**For OPEN  
WINDOW  
DISPLAYS.**

**WRITE FOR OUR LIST SHOWING MANY  
NEW DESIGNS FOR OPEN WINDOW DISPLAYS.**



**Set 139.**—Consisting of 1 27 in., 2 24 in., 3 12 in. 3 9 in.  
POLISHED OAK PEDESTALS, with 1 24 in. x 18 in.,  
2 18 in. x 12 in., 2 16 in. x 10 in. OVAL PLATE GLASS  
SHELVES: 1 12 in. Angle and 3 10 in. Circles.

**86/- Complete.**

Our WINDOW PAPERS are 3/6 per roll of 12 yards.  
21 in. wide—WRITE FOR SAMPLES.



## HAWLEY'S I.K.

IS THE  
BEST

EVANS SONS LESCHER & WEBB, Ld.



# Veldt Cream

LABEL-TITLE. COPYRIGHT

A WHITE INSEPARABLE ABSORBENT CREAM.

Guaranteed absolutely free from Glucose, Benzoin or Tragacanth, so cannot dry up the skin.

GET CERTAIN REPEATS with the emollient which has no equal. The skin whitener without rival!

PAYS 40% ON MONTHLY BONUS TERMS.

Retail.	Size.	Price.	Free Bonus	on quantities named or pro rata with each gross.
3 1/2 d.	1 oz. bots.	36/- per gross	2 doz. 9d.	with each 6 doz.
9d.	3 oz. bots.	7/- per doz.	2 doz. 9d.	with each 4 doz.
1/3	6 oz. bots.	12/- per doz.	2 doz. 9d.	with each 2 doz.
2/6	12 oz. Bath-size bots.	24/- per doz.	2 doz. 9d.	with each 2 doz.

FREE IN ADDITION TO BONUS.

On £3 orders carriage paid.

Peach and Lilies Showcard (water-colour reproduction).  
Silent Salesman Showcase picturing Ellaline Terriss.  
Monster Show Bottle filled with genuine "Veldt" Cream.

Obtainable on bonus terms only from

**THE VELDT LABORATORY, Louth, England**

or through our Special Agents,

AYRTON, SAUNDERS & CO., Ltd., LIVERPOOL.

## ROBARTES' FOUR

### Diadem Vanishing Cream.

The New Cream for discerning women, put up in original white globes, P.A.T.A. 3/9, costs you 30/- doz.

### Diadem Face Powder.

The fragrant powder in the dainty striped box. P.A.T.A. 2/6, costs you 20/- doz.

### Decoltene.

The wonderful, pleasant, effective liquid Hair Remover. Sells and gets repeats. P.A.T.A. 3/9, costs you 30/- doz.

### Dinkie.

The dainty deodorant that eliminates all odour of perspiration, P.A.T.A. 2/6, costs you 20/- doz.

Ask your Wholesaler. Artistic showcards, etc. with orders.

Robartes, Ltd., 128 Jermyn St., London, S.W. 1.



## LOVELY EYELASHES

(A BRITISH SCIENTIFIC TRIUMPH)

grown and kept so by the application once daily of the colourless harmless eyelash food. Beneficial to the eyes

## CURLASH CREAM

Extensively and continuously advertised.

Endorsed by Mrs. Martin Harvey, Miss Nancy Price, Miss D. Tree, Miss Elizabeth Risdon, and hundreds of other ladies of discrimination. Testimonials received daily. Stocked by Butler & Crispe, Sangers, and other Wholesalers. Try a dozen 1/- size in your next wholesale order. We will supply you with dummies and showcards for small window display. **MAKES CONSTANT CUSTOMERS.**

THE D. BALDWIN MFG. CO., LTD., Wigmore St., London, W. 1.

# SACCHARIN 550

COUMARIN

VANILLIN

HELIOTROPIN

## GRANT, HUGHES & CO.

21 Mincing Lane - LONDON, E.C. 3.

Telephone—Avenue 4567.

Teleg. Address—"Nitroform London."

# WOOD PULP VESSELS, Ltd.

MANUFACTURERS & EXPORTERS OF  
**WOOD PULP VESSELS**

FOR CONFECTIONERS, CHEMISTS, GROCERS,  
JAM MANUFACTURERS, DAIRIES, &c. &c.

OFFICES AND FACTORIES:

**233-235 Queen's Road, BATTERSEA, LONDON, S.W.**





**THE DOOMO AIRSHIP FLY BAND**

A wide band, sticky on both sides, unrolling like a blind.

Proprietors of FLYODOOMO—the old Favourite Fly Paper.

**Jno. H. Smith & Co.,**

TELEGRAMS: SMITH, CHEMIST, NEWARK. **NEWARK-ON-TRENT.**



**FLASH LIGHTS.**

**Lowest Competitive Trade Rates in New Catalogue.**

Post Free on application.

Demand exceeds supplies, now restricted by prohibitions.

**"PIFCO" HOUSE**

**MANCHESTER**



Where  
**HEALTH**  
means  
**WEALTH**

THE disappearance of the smoking chimney and all its attendant evils would mean increased health as well as increased wealth for the country.

Smoke denotes waste—waste of the coal itself, which is an industrial nation's life-blood, and waste of its valuable constituents.

Feed the domestic grate and the factory furnace wherever possible with gas instead of coal, and what is the result? The smoke nuisance is lessened, labour conditions become pleasanter, valuable by-products are recovered for use, output is augmented with decreased costs—and the reduced drain on our coal reserves, the chief source of our national wealth, augurs well for our material prosperity in the years to come.

Write for the "Industrial Fuel" numbers of  
"A Thousand and One Uses for Gas" to

**THE BRITISH COMMERCIAL GAS ASSOCIATION**

47 Victoria Street, Westminster, S.W. 1





**FRED<sup>K</sup>. BOEHM,**

LIMITED,

15, 16 & 17 JEWRY STREET  
LONDON, E.C. 3.

**ESS. BERGAMOT**  
 „ **LEMON**  
 „ **ORANGE**  
**OIL CARAWAY**  
 „ **NUTMEG**  
 „ **SANTALWOOD**

Stock in London.  
 Inquiries respectfully solicited.  
 Special terms to large Buyers.  
 Kindly name quantity required.

Telephone: 1365 Avenue (3 lines). Telewriter: 96 Walbrook.  
 Telegrams: "Bissula, Telew, London."

## "ONGARD" SAFETY PINS

(GUARANTEED RUST PROOF)

ARE THE BEST FOR  
SURGICAL AND NURSERY PURPOSES.



SOLE MANUFACTURERS

**GEORGE GOODMAN LTD.,**  
BIRMINGHAM.

**BRITISH MADE**

**SCENT SPRINKLERS  
COLLAPSIBLE TUBES**  
Decorated Tin Boxes & Canisters

Manufactured by

**The JOHN DALE Mfg. Coy.**  
NEW SOUTHGATE, LONDON. N.



PIN your FAITH  
to

**SEMREH**

**SELF-FIXING  
BOTTLE CAPS.**

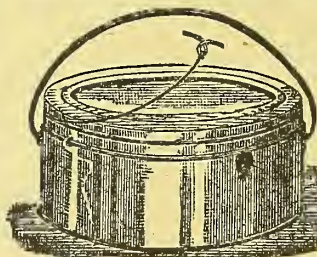
They cannot be sur-  
passed, no matter  
what you pay.

Particulars from  
**The VISCOSE**  
Development Co., Ltd.,  
BROMLEY, KENT.

Prompt dispatch can  
at present be given.

**The Northern Tin Canister Works,**

6 Worsay Street,  
**LIVERPOOL.**



Manufacturers  
for the  
**Chemical Trade.**

**TIGHT SEAMING &  
VARNISH BOTTLES  
A SPECIALITY.**

*Patent Air Tight Slip-lid Tin*  
For Export.

*Prompt Deliveries Assured.*

## The "MILNER" STRAW HAT CLEANER

SELLS WELL  
EVERYWHERE

**3d.**

It is easily used and gives  
complete satisfaction.

**NINTH SEASON**

6 dozen 10/- net.

12 „ 19/- net.

Carriage Paid.

Orders of 20/- 2½%

£5 5% £10 7½%

**MILNER'S CHEMICAL CO.**  
LIVERPOOL.



## RADIUM COMPOUND.

**SELF-LUMINOUS.**

Highest Possible Efficiency, Durability & Value.

As supplied to H.M. Government, &c.

Guaranteed to pass N.P.L. requirements.

All Grades in stock, from 15/- per gram.

RADIUM SALTS TESTED AND CERTIFIED.

**F. HARRISON GLEW,** THE RADIUM  
LABORATORY  
156 Clapham Road, London, S.W.



# 'KEPLER'

(Trade Mark)

## Malt Products

Their supreme quality is  
steadfastly maintained despite  
wartime difficulties.

### LIST OF PREPARATIONS:

#### 'KEPLER' Malt Extract

*Per dozen bottles 30/0, large bottles 54/0*

- 'KEPLER' Malt Extract with Beef and Iron
- 'KEPLER' Malt Extract with Cascara Sagrada
- 'KEPLER' Malt Extract with Chemical Food
- 'KEPLER' Malt Extract with Iron, Quinine and Strychnine
- \* 'KEPLER' Malt Extract with Glycerophosphates
- 'KEPLER' Malt Extract with Hæmoglobin
- \* 'KEPLER' Malt Extract with Hypophosphites
- 'KEPLER' Malt Extract with Iron and Quinine Citrate
- 'KEPLER' Malt Extract with Iron Iodide
- 'KEPLER' Malt Extract with Iron
- 'KEPLER' Malt Extract with Pepsin
- 'KEPLER' Malt Extract with Pepsin and Pancreatin
- 'KEPLER' Malt Extract with Phosphorus

*Per dozen bottles 36/0*

*\* Large bottles issued at 66/0 per dozen*

#### 'KEPLER' Cod Liver Oil with Malt Extract

*Per dozen bottles 30/0, large bottles 54/0*

- 'KEPLER' Cod Liver Oil with Malt Extract and Creosote
- 'KEPLER' Cod Liver Oil with Malt Extract and Chemical Food
- \* 'KEPLER' Cod Liver Oil with Malt Extract and Hypophosphites
- 'KEPLER' Cod Liver Oil with Malt Extract and Iron Iodide
- 'KEPLER' Cod Liver Oil with Malt Extract and Phosphorus

*Per dozen bottles 36/0*

*\* Large bottles issued at 66/0 per dozen*

PRICES SUBJECT

BURROUGHS WELLCOME & CO.

LONDON

G 836

COPYRIGHT





# THE BRITISH DRUG HOUSES

B.D.H.

## Revised Prices for P.A.T.A. Lines

OWING to continued advances in the cost of production the selling prices of the following articles have been increased.

### ESVACH WATER.

New Retail Price,  
P.A.T.A. **1/4**

Wholesale Price,  
per doz. **10/6 net.**

### URO-HEXOIDS.

New Retail Price,  
P.A.T.A. **2/6**

Wholesale Price,  
per doz. **20/- net.**

### HEROGEN BISCUITS.

New Retail Price,  
P.A.T.A. **1/9**

Wholesale Price,  
per doz. **16/6 net.**

*Slips giving the new retail prices will be supplied, on request, to customers having in stock goods bearing the old prices.*

22-30, Graham Street, City Road, LONDON, N.





**A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.**  
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

#### SUBSCRIPTION RATES.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 2s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Подписная цена на еженедельный журнал с приложением Годового Дневника—12 шиллингов 6 пенсов на год с пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

**Head Office: 42 CANNON STREET, LONDON, E.C. 4.**

Telegrams: "Chemicus. Cannon, London." Telephone 3617 Central (three lines).

Branches: MELBOURNE AND SYDNEY, AUST.

#### CONTENTS: No. 18 (Series No. 1997), Vol. 90.

	PAGE		PAGE
Birth .....	39	Information Department .....	40
Colonial and Foreign News ...	47	Insurance Act Dispensing ...	45
Coming Events .....	33	Irish News .....	36
Company News .....	36	Legal Reports .....	36
Corner for Students .....	36	Marriages .....	39
Correspondence:		Military Tribunals' Decisions	40
Letters .....	50	Observations and Reflections	41
Subscribers' Symposium .....	52	Personalities .....	40
Miscellaneous Inquiries ...	52	Pharmaceutical Society of	
Council Election .....	34	Great Britain:	
Deaths .....	39	Council Meeting .....	37
Editorial Articles:		Poisonings .....	35
Controlled Commodities ...	42	Retrospect .....	52
Post-bellum Problems ...	43	Scottish News .....	36
Military Service Notices ...	44	Trade Notes .....	40
New Spirit-duty .....	44	Trade Report .....	48
Overseas Trade in March ...	44	Westminster Wisdom .....	45
English News .....	35	Winter Session of Chemists'	
European War .....	33	Associations .....	46

## Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

#### Monday, May 6.

*Society of Chemical Industry, London Section.* Burlington House, Piccadilly, W., at 7.30 P.M. Dr. R. Seligman and Mr. P. Williams on "The Interaction of Aluminium, and (a) the Alcohols; (b) the Higher Fatty Acids; (c) Phenol, Cresol, and Naphthol." Mr. J. S. G. Thomas, B.Sc., on "The Principles and Applications of Hot-wire Anemometry."

#### Tuesday, May 7.

*Röntgen Society, Royal Society of Arts,* 18 John Street, Strand, London, W.C., at 7.45 P.M. General meeting.

*Progressive Pharmacy Club,* Arundel Hotel, Victoria Embankment, London, W.C., at 8.30 P.M. Mr. G. E. Marfitt, Leicester, on "Window-dressing and the Display of Goods" (second lecture of the series "Business Methods applied to Pharmacy").

#### Wednesday, May 8.

*Lanarkshire Pharmacists' Association, Y.M.C.A. Institute,* Bothwell Street, Glasgow, at 3.30 P.M. Annual meeting.

#### Thursday, May 9.

*North London Pharmacists' Association, Progressive Pharmacy Club,* Arundel Hotel, Victoria Embankment, W.C., at 3 P.M. Annual meeting.

#### Friday, May 10.

*Royal Institution of Great Britain,* Albemarle Street, Piccadilly, London, W. 1, at 5.30 P.M. Professor F. Gowland Hopkins on "Human Nutrition."

## European War News.

### Import and Export Notices.

UNITED KINGDOM.—The Director of the War Trade Department announces that, after consultation with the Food Production Department, it has been decided that licences will not be issued for the export of mustard-seed grown in the United Kingdom in 1918, or of the condiment manufactured therefrom.—The Board of Trade give notice that the general licence permitting the transhipment in United Kingdom ports of goods on the list of prohibited imports, when brought to this country in neutral vessels, has now been revoked. Applications for transhipment must now be made on the approved forms (which may be obtained from the Customs offices) in respect of all goods affected by the import or export prohibitions, whatever the nationality of the ship by which they have been brought to the United Kingdom.—The "London Gazette" (April 26) contains a Privy Council Order to the following effect: That the goods mentioned in the schedule to the Proclamation of May 10, 1917, as amended and added to by subsequent Orders of Council, and marked "(c)," which are at present prohibited to be exported to all destinations in foreign countries in Europe and on the Mediterranean and Black Seas, other than France and French Possessions, Russia, Italy and Italian Possessions, Spain and Portugal, and to all ports in any such foreign countries, and to all Russian Baltic ports, should be prohibited to be exported to all destinations in European and Asiatic Russia and in other foreign countries in Europe and on the Mediterranean, except France and French Possessions, Italy and Italian Possessions, Spain and Portugal, and to all ports in any such foreign countries.

### Ammonia Sulphate.

The "London Gazette" (April 30) contains an Order, issued by the Ministry of Munitions, regulating sales and purchases of superphosphates, sulphate of ammonia, and ground basic slag, which takes effect as from May 1, 1918. The Order fixes maximum prices, those for ammonia sulphate (24½ per cent.) being 15l. 5s. per ton for June 1 to August 31, 1918, delivery; 15l. 15s. for September 1 to November 30, 1918; 16l. 5s. for December 1, 1918, to February 28, 1919; and 16l. 15s. for March 1 to May 31, 1919. Full particulars are given of a scheme for equalising costs of distribution of superphosphate, sulphate of ammonia, and ground basic slag, particulars in regard to which should be addressed to the Food Production Department, Board of Agriculture and Fisheries, 72 Victoria Street, S.W.; and applications in reference to the Order (including applications for licences) should be addressed to the Director of Acid Supplies, Ministry of Munitions of War, Explosives Supply Department, Storey's Gate, Westminster, S.W. 1.

### Personalia.

SECOND-LIEUTENANT ALEXANDER MILLAR, M.C., is reported missing. Second-Lieutenant Millar qualified as a pharmacist in 1901.

GUNNER TOM METCALFE, R.F.A., is suffering from poisoning by gas during action. In civil life he was with Taylors' Drug Stores, Ltd., at Harrogate.

PRIVATE STANLEY HAYES, Machine-gun Corps, is reported a prisoner of war. He enlisted from the staff of Joseph Crossfield & Sons, Ltd., Warrington.

LANCE-CORPORAL EDWARD MCCOURT, M.M., is reported wounded. He enlisted from the staff of C. E. Fulford, Ltd., manufacturing chemists, Carlton Hill, Leeds.

PRIVATE CLIFTON A. HEATH, Lincolnshire Regiment, is reported missing. In civil life he was an assistant with Mr. George Jackson, chemist and druggist, Leeds.

PRIVATE HAROLD WRIGHT, Royal West Surrey Regiment (Queen's), is reported a prisoner of war. He enlisted from the staff of Taylors' Drug Co., Ltd., Burley Hill, Leeds.

PRIVATE H. BARRACLOUGH, West Yorkshire Regiment, has been taken prisoner. Prior to enlistment he was with Brotherton & Co., Ltd., manufacturing chemists, Leeds.

LIEUTENANT J. C. BARLOW, Lancashire Fusiliers, has been wounded on service and is in hospital abroad. In civil life Lieutenant Barlow was on the staff of Joseph Crossfield & Sons, Ltd., Warrington.

PRIVATE ARTHUR ROY BRYARS, York and Lancaster Regiment, has been severely wounded and is in hospital in England. Private Bryars is a son of the late Mr. Hudson Bryars, chemist and druggist, Attercliffe, Sheffield.

LANCE-CORPORAL GEORGE DODWORTH, Northumberland Fusiliers, has been awarded the Military Medal. Prior to joining the Army Lance-Corporal Dodworth was an assistant with Mr. Henry Bown, chemist and druggist, Cemetery Road, Sheffield.



MR. PERCY V. SHARP, of the R.N.R., at great personal risk was successful in saving the life of a child who had fallen into the dock at Penzance last week. Mr. Sharp, previous to the war, was a director of Burckett, Sharp & Co., Ltd., drug and chemical merchants, Mincing Lane, E.C.

«CAPTAIN GEORGE CHARLES COULL, R.F.A., is reported wounded on service. Captain Coull, who is the second son of Mr. George Coull, Ph.C., Leith, received his commission in August 1914, and has been at the Front for three years. His elder brother is on active service; a younger brother was killed in action in September 1916.

LIEUTENANT ERNEST SANDFORD EVANS, Cheshire Regiment, has just left for the Front after over three years' service in this country. Lieutenant Evans is the youngest son of Mr. William P. Evans (Evans Sons Lescher & Webb, Ltd.), President of the Liverpool Chemists' Association, another of whose sons is on service at the Front.

PRIVATE NORMAN FARQUHAR WRIGHT was seriously wounded on service on April 4, and is in hospital in France. Amputation of the right leg has been successfully performed, and the latest report is very satisfactory. Private Wright is the youngest son of Mr. James Wright, 2A Mission Row, Calcutta, agent for S. Maw, Son & Sons, Ltd., May & Baker, Ltd., and other firms.

AIR-MECHANIC A. H. PRICE was wounded on board the *Vindictive* in the recent raid on the Belgian coast, and is now in hospital in England, where he is reported to be recovering. His father, Mr. A. S. Price, chemist and druggist, to whom in civil life he was apprenticed, is chairman of A. S. Price & Co., Ltd., manufacturing chemists, Blackheath, Birmingham.

SERGEANT TOM ASHWORTH, M.M., King's (Liverpool Regiment), has been awarded the D.C.M. for conspicuous gallantry in action from March 22 to March 28. During that period he was constantly in or near the firing line, but has come through the ordeal safe and sound. Sergeant Ashworth, who is a chemist and druggist, was till the outbreak of war with Clay & Abraham, Ltd., chemists, Liverpool (see *C. & D.*, 1917, p. 750).

#### Miscellaneous.

UNITED STATES ENEMY TRADING LIST.—A revised list has been issued by the United States containing more than 5,000 names drawn up in conjunction with Great Britain and Franco. Besides the neutral countries in Europe and South America, Greco and Morocco are included in the territory covered by the list.

GAS CARBON.—Dealings in gasworks retort carbon, coke-oven carbon, and pitch coke are restricted by an Order of the Minister of Munitions, dated April 19. Application for permits under the Order should be addressed to the Controller, Non-Ferrous Materials Supply, M.S./R./C.L., Ministry of Munitions, 8 Northumberland Avenue, London, W.C. 2.

ENEMY TRADE-MARK AND PATENT.—The registration of the trade-mark 276,477 (Novocaine), belonging to the Farbwerke vormals Meister, Lucius & Brüning, has been suspended in favour of Thomas Kerfoot and Ernest Hodgson Kerfoot. A licence has also been granted to the same applicants to use patent 17162/15 ("aminobenzoic acid alkalamine esters and derivatives thereof").

EMBARGO ON TIN.—The Ministry of Munitions has made an Order prohibiting the purchase, sale, or—except for the purpose of carrying out a contract in writing now existing for the sale or purchase of tin—any transaction or negotiation in relation to the sale or purchase of tin situated outside the United Kingdom, except under licence. For the purpose of the Order tin means tin of all qualities, and includes sheet and rolled tin, tinfoil, scrap tin, tin ores and concentrates, and tin residues. The Order applies to stocks exceeding 5 cwt.

MILITARY SERVICE (No. 2) ACT, 1918.—The Local Government Board has issued to Tribunals new regulations made in consequence of the passing of this Act, the document known as "R. 184" being obtainable from the Stationery Office for 1d. It had been foreshadowed that changes were going to be made in the procedure of the Tribunals with a view of saving time, but great exception is taken to the following regulation:

It has been decided that applicants may not in future employ professional representatives before Tribunals. Tribunals must be careful to elicit all the relevant facts in each case. If they consider that an applicant cannot state his case fairly they may allow him to be represented by a relative or other person, but not to be represented professionally. An employer who is applying for a man in his service may be represented by a person in his employment.

The question of the unfairness of thus depriving applicants of professional assistance when appearing before a Tribunal is to be raised in Parliament.

## Council Election.

WE mentioned last week that the Pharmaceutical Reform Committee, of which Mr. Newman H. Schollar, 29 Sussex Place, South Kensington, London, S.W., is acting Secretary, had sent out a series of questions with a view of ascertaining the views of candidates for the Council of the Pharmaceutical Society on reforms which have been put forward. The inquiries were in the following form:

#### COUNCIL PROCEDURE.

"(a) It seems desirable that all Councillors should be encouraged to take part in the management of the affairs of the Society. To bring this about it is suggested that an Executive Committee should be formed, upon which all Councillors should serve in rotation.

(b) The Scientific and Advisory Committee, which seldom meets, should be converted into a Technical Committee to formulate and promote researches for the purpose of elucidating difficulties met with in pharmaceutical practice, the Committee to be placed upon such a basis that application may be made for grants to the Department of Scientific and Industrial Research.

(c) An Educational Committee should be set up to deal with schemes connected with the education of chemists, and this body could be entrusted with the management of the School of Pharmacy. Some urgent problems which the Committee should be required to deal with are:

(1) To co-ordinate the pharmaceutical education of apprentices or students up to the age of eighteen with the national scheme of education.

(2) To devise simple methods of promoting the entrance of candidates to the ranks of pharmacy.

(3) To reconstruct the syllabus of the examinations on modern lines; and

(4) To convert the Major examination into one having a value as indicating special qualification in analytical and physiological chemistry.

(d) The Local Associations Executive Committee should be reorganised. All the members should be elected by properly federated bodies representing the various interests in pharmacy—*e.g.*, panel chemists, institutional dispensers, assistants, etc. A Secretary should be provided, his salary to be paid by contributions from Pharmaceutical Committees, local Associations, etc. This Committee should direct special attention to improving the remuneration for insurance dispensing, to bring about the removal of the rural-area anomaly, and endeavour to ensure the complete separation of prescribing and dispensing.

#### RE-ESTABLISHMENT.

(a) An effort should be made to re-establish pharmacists whose businesses have been closed or adversely affected by the owner's services for his country.

(b) Methods of assisting undergraduates either by educational concessions, such as a Modified examination, or by payment of fees and sustentation while taking a curriculum of study at a recognised pharmacy school.

(c) It may be necessary to found a special fund, to which contributions should be invited from all persons and bodies connected with pharmacy.

(d) A Committee representing masters and assistants, graduates and undergraduates, and others should deal with the problems involved under this head.

#### PHARMACISTS AS NATIONAL DISPENSERS.

The ideal to be aimed at should be that all dispensing in Great Britain should be done by qualified pharmacists or under qualified supervision. To assist in bringing this about an agreement should be arrived at with the Apothecaries' Hall in regard to the Apothecaries' Assistants examination. The Ministry of Health should be induced to accept the advice in dispensing practice and the retailing of drugs of an Advisory Committee, the members of which should consist of practising pharmacists.

The Pharmaceutical Reform Committee inform us that replies have been received from eight of the twelve candidates who were asked for their views, and after a careful consideration of the letters it has been decided to support the candidature of the following:

Miss Buchanan	Mr. Jas. Kirkpatrick.
Mr. A. S. Campkin.	Mr. C. W. Ridyard.
Mr. T. Guthrie.	Mr. H. Wolff.

The support is asked of all those members of the Society who are in favour of the policy of the Pharmaceutical Reform Committee.



## English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### Contracts.

The following Government contracts were notified during March:

**WAR OFFICE.**—*Bacteriological Apparatus.*—Baird & Tatlock (London), Ltd. *Chemicals.*—Johnson & Sons (Manufacturing Chemists), Ltd. *Marking-ink.*—A. H. Uppington. *Medicines.*—John Bell & Croyden, Ltd.; Burgoyne, Burbidge & Co., Ltd.; Johnson & Sons (Manufacturing Chemists), Ltd.; London Chemical Works, Ltd.; C. M. & C. Woodhouse. *Methylated Spirit.*—Bristol Distilling Co., Ltd. *Photographic Stores.*—J. G. Avery; Foxcroft & Co., Ltd.; Kodak, Ltd. *Prepared Chalk.*—S. Guiterman & Co., Ltd. *Soap.*—J. Kay & Sons; J. L. Thomas & Co., Ltd. *Soda.*—Brunner, Mond & Co., Ltd.; United Alkali Co., Ltd. *Sterilisers.*—Rosebery Metal Co. *Surgical Materials.*—R. Bailey & Son; Barton, Gibbs & Co., Ltd.; J. Bury & Co., Ltd.; J. L. Hatrick & Co., Ltd.; G. Haynes & Co.; B. Lees & Co., Ltd.; J. Lingard, Ltd.; S. Maw, Son & Sons, Ltd.; Platts Mill Co., Ltd.; Robinson & Sons, Ltd.; T. J. Smith & Nephew, Ltd.; Southall Bros. & Barclay, Ltd.; Springfield Mill Co.; Vernon & Co., Ltd. *Tetanus Antitoxin.*—Lister Institute of Preventive Medicines. *x-Ray Apparatus.*—H. W. Cox & Co., Ltd.; A. Lyon & Wrench, Ltd.

**POST OFFICE.**—*Manganese.*—S. G. Bailey & Co., Ltd. *Sealing-wax.*—J. F. Craddock & Co.

The following tenders have been accepted by the bodies named:

Aylesbury Town Council.—Mr. R. P. Fanshawe, chemist and druggist, disinfectants.

Braintree Guardians.—The "Sanitas" Co., Ltd., soap; Oxo, Ltd., beef extract.

Lewisham Borough Council.—Burt, Boulton & Haywood, Ltd., Dussek Bros. & Co., Ltd., Mr. H. E. Olby, and the "Sanitas" Co., Ltd., disinfectants.

London County Council.—Baiss Bros. & Co., Ltd., Boot's Pure Drug Co., Ltd., British Malt Products Co., Corbyn, Stacey & Co., Ltd., Thos. Hodgkinson, Prestons & King, May & Baker, Ltd., W. G. Taylor, and Willows, Francis, Butler & Thompson, Ltd., drugs; Newton, Chambers & Co., Ltd., Pearson's Antiseptic Co., Ltd., and the "Sanitas" Co., Ltd., disinfectants.

Manchester City Council (Tramway Department).—Jeyes' Sanitary Compounds Co., Ltd., toilet-scrap; Carbo Chemical Manufacturing Co., Ltd., disinfectant-fluid.

Marylebone Guardians.—Bovril, Ltd., invalid bovril; Oxo, Ltd., beef extract.

Metropolitan Asylums Board.—Arthur Berton, Ltd., Cuxson, Gerrard & Co., Ltd., G. Haynes & Co., Robinson & Sons, Ltd., and W. G. Taylor, dressings; May, Roberts & Co., Ltd., druggists' sundries; The British Drug Houses, Ltd., drugs; Waters & Co., Ltd., methylated spirit; S. Maw, Son & Sons, Ltd., surgical appliances; the "Sanitas" Co., Ltd., disinfectants.

Southend-on-Sea Town Council.—Mr. F. Ingram Johnson, chemist and druggist, drugs and sundries.

Willesden Guardians.—Duncan, Flockhart & Co., drugs; S. Maw, Son & Sons, Ltd., druggists' sundries.

### Liverpool.

"Sorry we are out of it" is hourly heard across chemists' counters to-day, and customers no longer express surprise.

As Secretary of the Liverpool Pharmaceutical Committee, Mr. G. V. C. Last is carrying out, in Liverpool, the request of the Pharmaceutical Society to obtain full particulars respecting the staff connected with each Liverpool pharmacy.

As one result of Mr. J. G. Tringham's address to the Liverpool Chemists' Association (see p. 46), the feasibility of collective advertising by pharmacists is being discussed informally.

Does pharmacy militate against the evolution of a singer of humorous songs? The Liverpool Chemists' Association has to step outside its ranks for the comic man at a concert. Then, too, Ayrtton, Saunders & Co., Ltd., at their recent war funds entertainment produced musicians, vocal and instrumental, in fine array, together with a dramatic author and actresses of talent. Only the humorous singer was borrowed, even the artistically designed programme being a product of the Hanover Street "printery." The receipts at this concert for Red Cross objects were 76l. 7s. 10d.—a splendid result.

### Sheffield.

Sir Robert Hadfield, F.R.S., is advocating an institute, which would cost 400,000l., to house the various technical Societies, in order to organise against the keen opposition expected after the war.

Special arrangements have been made in the Metallurgy Department of the University for training girls to undertake process-work in order to release some of the younger analytical chemists for the Army.

An attempt made recently to break into the High Street premises of Boots, Ltd., was foiled by the smartness of a night-watchman, and the unwelcome stranger has been remanded at the police court for inquiries.

The military authorities have made a move by calling up some of the unqualified men who have held certificates of exemption, but on the facts being placed before them have agreed to cancel the notices to join the Colours. In some cases C3 men have been re-examined, re-classed, and made to join up.

Mr. T. L. Hollely, Ph.C., Retford, has been pointing out that the shortage of labour is partly accounted for by the prices paid for Government work. He instanced a case of a lad of seventeen being put on at 12s. a day, with two meals, and 24s. for Sunday. At the end of a week the youth was told he was not to work as he had done, or the job would not last.

### Birmingham.

Mr. Wilfrid Hill has been elected President of the Birmingham Business Club.

The north-east wind is held accountable for the advent of influenza, which is of a severe type.

Dr. J. Coole Kneale has been appointed Deputy-Commissioner of Medical Service at Curzon Hall, Birmingham.

Sir Thomas Beecham, Bart., gave an address on music at Birmingham University on April 24, Sir Oliver Lodge presiding.

"The saccharin muddle" is in full swing in Birmingham, retail prices varying from 1s. 3d. to 2s. per hundred, and some shops proclaiming "plenty" while others announce "none."

The Birmingham working man is running to his pharmacist for a definition of "botulism." He (the working man) was always doubtful about sausage, and now he is beginning to fear cheese.

The Birmingham Pharmaceutical Association's meeting on April 24 was a very large one, and comprised representatives from all the outlying districts, including Smethwick, Leamington, Warwick, and Coventry. Mr. Hugo Wolff gave a very neat speech, as did Mr. Keall. Mr. Glyn-Jones was quite in forensic form, and carried the meeting with him.

### Miscellaneous.

**MID-DAY CLOSING.**—The chemists of Dover have agreed to close their pharmacies from 1.15 to 2.15 daily.

**FIRE.**—Slight damage was done to a warehouse at the rear of the shop of Mr. W. Highley, chemist and druggist, Drako Street, Rochdale, in a recent outbreak of fire.

**SALE OF FOOD AND DRUGS ACTS.**—Of sixteen samples of Epsom salts analysed for the Lancashire County Council last quarter, one was found to contain 0.7 grain of arsenic per lb. A sample of bread powder tested "consisted of Epsom salts."

**POISONINGS.**—An inquest was held at Douglas, Isle of Man, on April 29, on the body of Frederick Charles Brandauer, a well-known steel-pen manufacturer, who had been naturalised but had let his naturalisation lapse, and was under notice of repatriation to Germany. Evidence was given that he was found unconscious, and that veronal was among the contents of a glass near his bed. A verdict of "Suicide" was returned.—Walter Gibbins, a prisoner awaiting execution in Armley Gaol, died from the effect of spirit of salt taken at the time of his arrest.

**IN THE COURTS.**—At Bow Street Police Court, London, on April 29, John Brown, hotel servant, Stangate, Lambeth, was remanded on a charge of unlawfully having in his possession thirty-two "packets" of cocaine. It was stated in evidence that on being arrested the prisoner threw away the cocaine, subsequently asking that the substance should be analysed, and that at his address was found a quantity of "silver paper such as cocaine was usually wrapped in."—At Sheffield Police Court, recently, Mr. Wallace E. Heaton, Ph.C., was fined 5l. for showing an unscreened light at an office in the city.—Sentence of five years' penal servitude, to be followed by deportation, was passed by the Recorder at the Old Bailey, London, on May 1, on Nikita Lermont, described as a chemist, for administering drugs to a parlourmaid for an unlawful purpose.



## Irish News.

### Brevities.

Mr. J. W. Gray, Ph.C., has been appointed Churchwarden of St. Mark's, Armagh.

Mr. S. Carson, R.D., has opened a drug-store and dental surgery at 117 York Street, Belfast. Mr. Carson was formerly in business at Albert Bridge Road, Belfast.

Mr. Bryce McDowell, R.D., Bridge End, Belfast, has received news that his brother, Private Isaac McDowell, Royal Irish Fusiliers, reported as missing, has been taken prisoner, and is now in Germany.

Mr. W. Boulton Conyngham, Ph.C., F.C.S., who represents Chas. Midgley, Ltd., in Ireland, being on Government work under the Food Controller, has been unable to make his usual calls on chemists in Ireland.

A golf-match is being arranged for those in the drug-trade in Belfast and neighbourhood during June. Persons who wish to participate are asked to send their names to Mr. J. A. McRoberts, 63 Victoria Street, or Mr. W. J. Rankin, jun., 11 Waring Street, Belfast.

Second-Lieutenant H. M. Lancashire, R.I.R., son of Mr. Huston Lancashire, J.P., Ph.C., has arrived home on leave from hospital in England. Lieutenant Lancashire was severely wounded in action, as a result of which he has practically lost the use of one of his arms.

## Scottish News.

### Brevities.

Mr. J. L. Ewing, LL.D., has subscribed 50*l.* to the Watsonian War Memorial Fund.

Locally there has been a serious shortage of saccharin tablets during the past week, even the uncontrolled variety having disappeared.

In Edinburgh Sheriff Court on April 26, Francis Kynoch, dairykeeper, Corstorphine, was fined 100*l.* on charges of delivering milk deficient in fat and of adding "annatto or colouring-matter" to 32 gals. of milk.

Rumour has it that at the forthcoming election of members for the North British Branch Executive of the Pharmaceutical Society one or two ladies, and a number of young men of advanced ideas, will be brought forward to oppose those who have been on the Executive, without a break, for a considerable number of years.

## Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

### QUALITATIVE ANALYSIS FOR JUNIOR STUDENTS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture. Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, marked "Corner for Students" on the top left-hand corner) will be received up to, Tuesday, May 7, on which day the samples will be posted. Students' reports will be received up to Saturday, May 13. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

**SPECIAL NOTICE.**—The prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, *which fact must be attested on their reports.* Others may obtain specimens of the mixture of salts, and their reports will be separately adjudicated, but they will be regarded as *hors concours.* Correspondents who do not state that they are preparing for a qualifying examination will be included in the latter list.

## Legal Reports.

**Soap Contract.**—Mr. Justice Bailhache, sitting in the Commercial Court of King's Bench Division on April 20, had before him an action by Greathed & Humbert, Ltd., 110 Cannon Street, London, E.C., for damages for alleged breach of contract in respect of soap bought by Oakley, Sollas & Co., Ltd., Gracechurch Street, E.C. Defendants denied liability on the ground that the contracts were signed without their authority. Plaintiffs' case was that they sold under contracts for delivery in October, November, December 1917, and January 1918 parcels of vegetable soap, and these contracts were signed on behalf of the defendants by Mr. Henry Thyssen, manager of their chemical department. The defendants took delivery of one of the contracts and paid for that supply, and also took 20 tons of one contract under a special arrangement. Plaintiffs sued for 1,715*l.* as the profit on their purchases for the contracts. Defendants' case was that plaintiffs were well aware that no contract was considered valid unless signed by one of the directors. His Lordship, in giving judgment, said he was clear that, although Mr. Thyssen, the manager, who signed the contracts, had no authority from the defendants to do so, the fact that they admitted one of the contracts signed by this manager amounted to a ratification of the other contracts. He would allow the plaintiffs damage at the rate of 15*s.* per ton, and gave judgment for them for 750*l.*, with costs.

**Cream-of-Tartar Contract.**—The case of Fuerst Bros., Ltd. v. Fabrica Chémica Arenella à Società Anonima came before the Court of Appeal, consisting of Lords Justices Pickford, Warrington, and Scrutton, on April 29, upon the appeal of the defendants from the refusal of Mr. Justice Coleridge in Chambers to set aside the service of the writ out of the jurisdiction. Mr. Wright said the plaintiffs carried on business in the City of London, and the defendants were a limited company according to Italian law, carrying on business at Palermo. The action was brought by the plaintiffs to recover damages from the defendants for the alleged breach of two contracts, dated April 30 and July 2, 1917, made between the plaintiffs and the defendants for the sale and delivery by the defendants to the plaintiffs of 20 tons and 30 tons of white powdered cream of tartar. The plaintiffs' case was that the defendants had failed to deliver a balance of about 40 tons of the quantity to be delivered under the two contracts. The contracts were in the ordinary "C.F." form, and entailed an obligation on the defendants to place the goods on board ship at Palermo or at some port *en route* for London, the goods to be insured by the buyers. He contended that in the circumstances the learned Judge should have set aside the service of the writ. He submitted that the order for the service of the writ out of the jurisdiction had been made upon an affidavit which contained an incorrect statement of facts. Mr. Schwabe having supported the order of Mr. Justice Coleridge on behalf of the respondents, their Lordships allowed the appeal and set aside the service of the writ, holding that the affidavit upon which the order for service was made did not correctly state the facts relating to the contracts.

## Company News.

**NITROGEN PRODUCTS AND CAREIDE, LTD.,** in the year ended June 30, 1917, made a profit of 212,881*l.* To reserve, 70,000*l.*; balance of general expenditure account, 15,685*l.*; written off preliminary expenses, 21,445*l.*; interim dividend of 3 per cent., less tax, 40,851*l.*; leaving 64,900*l.*; final dividend of 3 per cent., less tax, making 6 per cent. for the year; forward, 24,049*l.*

**WRIGHT, LAYMAN & UMNEY, LTD.**—The report for the year ended December 31, 1917, states that the trading of the company has proved satisfactory. The accounts show that, after providing for bad debts, depreciations, income-tax, and excess-profit duties, there is a trading profit of 17,822*l.* 15*s.* 6*d.* Adding the amount brought forward from last year (9,576*l.* 15*s.* 2*d.*), there is carried forward 27,399*l.* 10*s.* 8*d.* to the credit of profit-and-loss. From this the following deductions have been made: Dividend of 6 per cent. on preference shares, less tax, 4,050*l.*; interim dividends of 10 per cent. on ordinary shares, less income-tax, 3,375*l.*; directors' fees, 4,500*l.*; leaving a balance of 15,474*l.* 10*s.* 8*d.* From this amount the directors recommend a further dividend of 10 per cent., making 20 per cent. for the year, less income-tax, absorbing 3,375*l.*, and propose to transfer a further 2,000*l.* to the reserve fund, leaving 10,099*l.* 10*s.* 8*d.* to be carried forward. Mr. E. B. Layman retires from the board by rotation, and offers himself for re-election.



# Pharmaceutical Society of Great Britain.

## Council-meeting.

THE monthly meeting of the Council was held on May 1 at 15 Bloomsbury Square, London, W.C., Mr. Edmund White (President) in the chair. All the members were present with the exception of Mr. W. H. Gibson (Treasurer), who telegraphed that he had missed his train.

### ELECTIONS AND RESTORATIONS.

Twenty-six members and twenty student-associates were elected. Two persons were restored to the Register of Chemists and Druggists and 324 to the Society. The Registrar reported that forty-one apprentices or students had been registered since last meeting.

### CORRESPONDENCE.

The Secretary intimated receipt of a letter from the Privy Council Office transmitting a copy of a Report by Dr. Luff on the examinations held by the Society in London during the year ended March 31, 1918, for information.

He also read a letter from the British Science Guild inviting the Society to appoint a representative to serve on the Committee which is organising an Exhibition of British Scientific Products to be held in July and August at King's College. The PRESIDENT remarked with reference to this communication that a large number of scientific bodies are being represented on the Committee referred to, and he suggested that the Council should appoint someone to serve. It was resolved that the President should be appointed to serve in that capacity.

A letter was read from Dr. Waldo, the Coroner for the City of London, forwarding a resolution from a jury, which had also been sent to the Privy Council. It related to the death of W. J. Jameson, a brewer's labourer, who died from taking rat-poison containing phosphorus, and recommended that phosphorus should be added to the list of scheduled poisons. The letter was referred to the Law Committee.

A letter had been addressed by the Secretary to the Director of National Service calling attention to the position created if pharmacists subject to being called upon for military service were not brought within the purview of any exemption. This, it was pointed out, might result in a complete stoppage of the dispensing of medicines where only one person was employed, and the establishment not being available where the services of a qualified person could be obtained. The letter suggested a complete organisation to assist the authorities in providing a large number of pharmacists for service compatible with the number of qualified men required for military and civil needs. A reply had been received from the Ministry of National Service to the effect that they are fully alive to the importance of the representations made on behalf of the Council.

A resolution was received from the Cambridge Pharmaceutical Association expressing the hope that the Council would use all its influence to protect the qualified chemist under the recent Military Service Act.

The Cardiff Pharmacists' Association forwarded a resolution to the effect that the Association supported the adoption of the decimal system of coinage and weights and measures.

A letter was read from the solicitors of the late Mr. Robert Bird, Queen's Gardens, Lancaster Gate, London, intimating that the deceased gentleman had bequeathed a legacy of 500*l.* to the Benevolent Fund of the Society. There was a provision, however, that the money should not be paid until such time as the investments could be realised to advantage, interest on the amount mentioned being in the meantime paid at the rate of 5 per cent. per annum.

A communication was read from the Oils and Fats Branch of the Ministry of Food confirming the arrangement that crushed linseed is to be reserved for human medical purposes and crushed linseed cake for veterinary purposes.

### FINANCE COMMITTEE.

The following is a summary of the financial statement submitted by the Finance Committee:

The receipts of the General Fund since the last meeting amounted to 1,947*l.* 8*s.* 7*d.*, made up as follows: Penalties and costs, 49*l.* 11*s.*; "Pharmaceutical Journal" and publications, 89*l.* 12*s.* 1*d.*; registration-fees, 67*l.* 4*s.*; restoration-fees, 2*l.* 2*s.*; subscriptions, 1,567*l.* 2*s.* 6*d.*; school-fees, 12*l.* 12*s.*; ground-rent, 103*l.* 2*s.* 6*d.*; and rent, 43*l.* 2*s.* 6*d.*; making, together with the balance at last meeting, 5,294*l.* 8*s.* 5*d.* Payments ordered at last meeting amounted to 1,271*l.* 11*s.* 10*d.*, and there was on deposit with bankers 3,000*l.*, leaving a balance of 1,022*l.* 11*s.* 5*d.* The amount recommended for payment was 1,719*l.* The other balances

were: Benevolent Fund, 1,643*l.* 9*s.* 3*d.* (donations account), 118*l.* 13*s.* 7*d.*, Orphan Fund, 123*l.* 0*s.* 7*d.*

The report was adopted.

### BENEVOLENT FUND.

Mr. BILSON, in proposing the adoption of the report of the Benevolent Fund Committee, acknowledged the following special contributions: Glasgow and West of Scotland Association, two guineas; Manchester Pharmaceutical Association, 3*l.* 13*s.* 6*d.*; Derby Pharmaceutical Association, 2*l.* 19*s.* 6*d.* The Committee had very carefully considered the remit with regard to the offer of a hundred guineas by the Leeds Chemists' Association in connection with their suggestion that the Society should inaugurate a fund for the relief of pharmacists who suffered while serving with His Majesty's Forces. Whilst feeling that it would be ill-advised to rush into a scheme of the kind, they thought the best way of dealing with the proposal would be to set up a Committee to consider it from all points. It was thought that possibly the present Benevolent Fund Committee might serve the purpose, and that in order to avoid any suspicion of the objects of the Committee being of a charitable character, another name should be given to it. Such a title for the Committee as the Pharmaceutical Demobilisation Aid Committee seemed rather a long one, but it conveyed exactly the meaning of the Finance Committee's recommendation.

Mr. PARRY mentioned that in addition to the contributions already given to the Benevolent Fund by the Liverpool and Wallasey Association, that organisation now desired to add a total amount of 68*l.* 9*s.* 3*d.*

Mr. ROWSELL and Mr. SARGANT agreed that the Committee had done the right thing. The latter said he had been authorised by his Association to ask the Council to accept from them a preliminary contribution of 150 guineas towards the proposed Fund.

Mr. SKINNER associated himself with the proposal. He said it would ease the situation for men who are at present entering the Army if they knew that the Society would stand at their back should necessity arise.

The report was then adopted, and at another meeting the necessary resolutions will be brought forward.

### LIBRARY COMMITTEE.

The report of this Committee stated that the Cedex Committee had considered the alternative use of other ingredients than olive oil and lard in connection with the manufacture of ointments. Subsequently they had been called into conference with the War Drugs Committee of the Home Office. As a result certain standards would be selected and announcements published for the guidance of medical men and dispensers. There had been three applications for Research scholarships, and it was agreed to recommend that Redwood scholarships should be given to Hope C. Winch and Miss Annie Williamson, and that Miss Vera Newcome be appointed a Burroughs scholar. The National Service Council requested that permission be given that certain work be done at the laboratory, on their paying the cost of an assistant and the necessary material. The Dean was authorised to do the work, subject to his reporting the details to the Committee at its next meeting. With reference to the Aberdeen Petrie Trust, the Committee recommended that the Aberdeen Association be informed that the expenses incurred in connection with the examination of candidates for the Bursary would be borne by the Trustees, and that the competition must be confined to student-associates of the Society, in accordance with the trust deed.

The report was adopted.

### PARLIAMENTARY AND GENERAL PURPOSES COMMITTEE.

The report of this Committee stated that the Parliamentary Secretary had reported on the action he had taken on behalf of the Society to secure a rebate on the increased duty on spirit. With reference to the Military Service Act, representations had been made for the setting-up of suitable machinery for the recruiting of pharmacists and at the same time for the provision of an adequate pharmaceutical service. It was suggested that the Committee recommend the Council to press for the establishment of a Central Provisional Committee to deal with the allocation of pharmacists for military and civil needs, in the main upon the lines to be adopted with respect to the medical and dental professions, subject to such modifications of functions as the difference of cases might call for, provided that it would not be within the responsibility of the Committee to serve the commercial or other non-pharmaceutical sides of pharmacists' occupations. It was further suggested that there should be a similar Committee for Scotland. The Committee agreed to the suggestion, and it was recommended that Mr. Glyn-Jones, Mr. Rowsell, the Vice-President, Mr. Jenkin, Mr. Cuff, and Mr. Campkin should be appointed



to the proposed Committee, together with Messrs. Deakin, Sargeant, Keall, Gifford, and Hagon in the event of other representatives being required.

Mr. HINES remarked that there was a formal discussion at the Committee meeting held the previous day. He thought it highly desirable that one should protest against discussions of the kind being raised without notice being placed on the agenda-paper. He did not think matters which, though small, had considerable influence on the future conditions and the future policy of the Council should be allowed to creep up in that way.

The PRESIDENT: To what matter do you refer?

Mr. HINES: It is with reference to the status of a certain official. If it is necessary to initiate a preliminary discussion, we should have the matter placed on the agenda-paper, and not raise it in that way.

Mr. SKINNER, referring to the spirit-duty, remarked that, of course, pharmacists would get the rebate, but payment of the duty meant the locking-up of a considerable amount of capital. He did not know if it was of financial importance for the Inland Revenue authorities to pay the rebates a little earlier than they did, and he did not know what was the minimum time in which one could claim it, but so far as he was concerned he had only been able to get it after the lapse of twelve months. If 15s. 3d. per gal. of the spirits one used was to be locked up for twelve months it would be found to amount to a big item, particularly to those who were big users of spirit in making their own tinctures.

Mr. DEAKIN agreed that everything possible should be done to expedite the payments referred to by Mr. Skinner.

Mr. YOUNG remarked that in many instances the Inland Revenue authorities paid the rebates once a month.

The report was adopted.

#### COUNCIL PRIZES.

It was reported that the following had been the awards in the competition for the Council prizes:

Pereira medal, Hope C. Winch; silver medal, Miss Vera Newcome; bronze medal, F. N. Appleton.

Messrs. Boa and Smith and Dr. Tocher were thanked for having conducted the competition.

#### MILITARY SERVICE.

The PRESIDENT moved and Mr. HARRINGTON seconded:

That the Director of National Service be urged to establish a Central Provisional Committee for England and Wales to deal with the allocation of pharmacists in respect to military and civil needs in the main upon the lines to be adopted in respect to the medical and dental professions, subject to such modifications of functions as the difference of cases might call for, provided that it will not be within the responsibility of the Committee to serve the commercial or other non-pharmaceutical sides of pharmacists' occupations, and that a similar Committee be established for Scotland.

This was agreed to.

#### THE NEW BY-LAWS.

It was moved by Mr. BILSON and seconded by Mr. KEALL:

That a special general meeting of the members be convened for Wednesday, May 15, at the close of the annual general meeting, for the purpose of confirming the new by-laws read for a third time at the meeting of the Council in April.

This was agreed to.

#### NORTH BRITISH BRANCH.

On the suggestion of Mr. CURRIE the report of the Executive of the North British Branch was received and entered on the minutes.

#### COUNCIL ELECTION.

It was announced that the scrutiny of votes at the Council election would not take place until May 16.

#### REPORT OF ORGANISATION COMMITTEE.

Mr. PARRY remarked that on the previous day the President had casually mentioned that the report of the Organisation Committee would be taken *in camera* at the Council meeting. He did not think this ought to be, for the report ought to be dealt with in public, since it contained matters of common interest to chemists of the country at the present moment, and ought to have been discussed before the coming election. If members of the Society knew the extraordinary proposals that were now being made by the Organisation Committee they would vote quite differently to what they at the moment intended.

The PRESIDENT: It is for the Council to decide.

Mr. PARRY: The Council have had no opportunity of discussing the matter together.

The PRESIDENT: Have you finished speaking or not?

Mr. PARRY: You have said it is not on the Council agenda. (Cries of "Chair!") I do not know that any

member of this Council—whether President, or individual, or group of individuals—has the right to withdraw the report of a Committee from being brought before the Council at its next meeting. If such a right exists it is due to the members to know it, so that it can be altered. No one has the right to suppress a report.

The PRESIDENT: In reply, I have to say that the Council is privileged to decide on what it wishes in regard to this.

Mr. SARGEANT pointed out that the Council owes to the pharmacists of the country some knowledge of the report of the Organisation Committee.

Mr. CURRIE said it is for the Council to decide whether it shall publish the report or not.

Mr. CAMPBELL remarked that certain proposals were made all of which probably would not be settled that day. These involved a radical change in procedure, and their consideration would probably involve more than one sitting. He quite appreciated the suggestion that the report should be presented to the Council, but before they were in a position to make any recommendation he took it that they would require more than one sitting.

Mr. SKINNER complained that members who had spoken had missed Mr. PARRY's point. It was that they might have had a conversational discussion with reference to the report on the previous day, so that they should know exactly where they stood regarding it. Mr. PARRY wished this, so that the information would be valuable to the men who at that moment desired to come to some conclusion as to whether the Council was dealing with the subject in a spirit of which they might approve or disapprove. If they did not discuss the report that day it would have to be held over for another month, when the opportunity for these men to decide as to how they would vote would be lost.

Mr. HINES moved, and Mr. PARRY seconded, that the report be discussed in public at that meeting, but the PRESIDENT ruled the motion out of order.

#### THE RETIRING TREASURER.

The PRESIDENT regretted the absence of the Treasurer (Mr. Gibson), because that was the last occasion on which he would have been present in an official capacity. He desired to express the Council's appreciation of the work of that gentleman during the fourteen years he had been a member of the Council and their regret at his retirement.

#### PRESENTATION TO MR. WOOLCOCK.

The PRESIDENT stated that the public business was ended, but it was the wish of the Council that he should perform a little ceremony in connection with the retirement of the Secretary. That was the last occasion on which Mr. Woolcock would officiate at a Council meeting, and it could not be allowed to pass without some recognition being made of his services, not only to the Council and to the Society, but to pharmacy at large. The Council had purchased a service of plate, which he had been asked to present to Mr. Woolcock as a visible sign of the esteem in which he was held by its members. (Applause.) The plate was suitably inscribed, and consisted of a silver tea-and-coffee service.

The SECRETARY, in acknowledging the gift, said: "I really believe that one's success in life is due infinitely more to one's friends than to oneself. I go out after five years with very mixed feelings. I suppose I have done the thing I ought to do, and that there was a need that I should take up this particular work in view of the position of this country with regard to other countries after the war."

This ended the business.

#### Annual Report.

The seventy-seventh annual report, which is to be submitted to members at the annual meeting on May 15, states that on December 31, 1917, the membership reached the high-water mark of 9,484, which is evidence that the administration of the affairs of the Society commends itself to chemists and druggists. Reference is made to the following matters: The school, research, National Health Insurance, education, pharmaceutical service in the Army, organisation, legal, Military Service Acts, the "Journal," the Secretary, Benevolent Fund, honours, Parliamentary, the North British Branch, and deaths of members.

OXYGEN IN WASHING-CHEMICALS.—A controversy that has been going on in Germany for some time on the use of oxygen-yielding chemicals in washing fabrics appears to be turning in their favour. It is declared in a recent article in the "Chemiker Zeitung" that "far from being deleterious, the oxygen washing media, if used in the proper solution and according to the prescribed directions, are distinctly advantageous. They dissolve the dirt from the fibres, so that rubbing is superfluous. They have a bleaching and cleansing power; and, above all, they have a disinfecting power."



## Birth.

**FERRIER.**—At 1 Erskine Street, Buckhaven, on April 20, the wife of Walter M. Ferrier, pharmacist, of a son.

## Marriages.

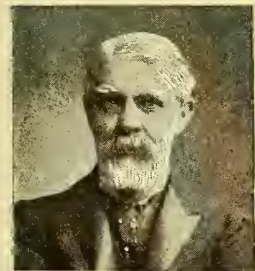
**BRUCE—ARNOLD.**—At the Parish Church of St. Anselm, Hatch End, on April 25, by the Rev. F. A. J. Bealey, M.A., Vicar, assisted by the Rev. R. Bowen Armstrong, B.A., James Howe, second son of Mr. Robert Bruce, Hatch End, Middlesex, to Bertha Madeleine, elder daughter of Mr. Henry R. Arnold (Burgoyne, Burbidges & Co., Ltd.), Hatch End, Middlesex.

**McINTOSH—JOHNSTONE.**—At St. Mark's Manse, Dundee, on April 19, Second-Lieutenant Wm. M. McIntosh, K.S.L.I., to Edith Mary Johnstone, Bellevue, Edinburgh, principal lady assistant with Davidson & Gray, chemists, Dundee.

## Deaths.

**BOULTON.**—At Copped Hall, Totteridge, Herts, on April 27, Sir Samuel Bagster Boulton, Bart., J.P., D.L., Knight of the Order of St. John of Jerusalem, F.R.G.S., A.Inst.C.E., and Lord of the Manor of Totteridge, aged eighty-seven. Sir Samuel was the son of the Rev. Thomas Boulton, a friend and coadjutor of the explorer Livingstone. He served under Thomas Brassey, father of the first Lord Brassey, in the construction of railways in France. More than half a century ago Sir Samuel established, in conjunction with the late H. P. Burt, the firm of Burt, Boulton & Haywood, of London, Paris, Riga, Selzaette, and Bilbao, and he was chairman when it became a company, as well as of the Dominion Tar and Chemical Co., Ltd. In promoting the application of scientific methods to chemical and other industries he took an active part. In 1884 he received the Telford medal of the Institution of Civil Engineers, of which he was an associate. He served as a member of the Tariff Commission. From 1893 to 1898 he was Vice-President of the London Chamber of Commerce, and had a seat on the Council of that body, and from 1893 to 1902 he presided over the West Ham Chamber of Commerce. Among other of his manifold activities may be enumerated a share in the establishment in 1899 of the London Labour Conciliation and Arbitration Board, of which he was President from that time until 1913, and he has presided at the settlement of more than fifty industrial disputes. In 1898-99 he successfully conducted, on behalf of the London Chamber of Commerce, and under the auspices of the British Foreign Office, a series of negotiations with the French Customs Administration with respect to grievances of British importers. Sir Samuel Boulton farmed his own land in Hertfordshire and Middlesex, and was a breeder of hackneys. His collection of coins is well known in numismatic circles. Sir Samuel married, in 1855, Sophia Louisa, daughter of the late Mr. Thomas Cooper, of Newbury, and the baronetcy, which was conferred on him in 1905, now devolves on his eldest son, Captain Harold Edwin Boulton, C.V.O., City of London Yeomanry.

**MACNAUGHTON-JONES.**—At "The Rest," Ravenscroft Park, High Barnet, on April 26, Mr. Henry Macnaughton-Jones, M.D., F.R.C.S.I. and E., aged seventy-three. Dr. Macnaughton-Jones was the son of the late Dr. W. T. Jones, who was a medical practitioner in Cork in the days when an apothecary's licence was the qualification for conducting a pharmacy. A five years' apprenticeship to his father gave him valuable experience in pharmacy as well as in medicine. In a paper read before the Public Dispensers' Association in London in 1898 Dr. Macnaughton-Jones told how he served his time in the regular way, became an assistant, and subsequently



DR. H. MACNAUGHTON-JONES.

obtained the Hall diploma. He took his M.D. degree before he was twenty, and was for some time Demonstrator and Lecturer in Descriptive Anatomy, and subsequently University Professor of Midwifery at Queen's College, Cork. He founded the Cork Eye, Ear, and Throat Hospital, and, in 1872, the Cork Maternity Hospital. Eventually Ireland became too small for him, and he came to London in 1883,

and quickly gained a reputation as an expert in gynaecology and in ear, nose, and throat troubles. For many years he had a large practice in Harley Street, but he was always particularly friendly towards young chemists. He used to attend the social gatherings connected with the Chemists' Assistants' Association, the London Chemists' Association, and the functions of the Pharmaceutical Society. His geniality and "approachableness" made him a popular guest, and his speeches were filled with Irish humour and interesting reminiscence. He never failed to pay tribute to the value of his early training in pharmacy, and in a communication to *THE CHEMIST AND DRUGGIST* in September 1899 (*C. & D.*, II., 1899, p. 409) Dr. Macnaughton-Jones wrote: "There is an enormous advantage gained by the student of medicine by the early familiarity with drugs, the compounding of prescriptions, the knowledge of incompatibles, and that general acquaintance with the art of prescribing which is acquired at the dispensing-counter." Dr. Macnaughton-Jones was a member of several British and foreign Medical Societies, being three times President of the Irish Medical Schools and Graduates' Association, Vice-President of the Royal Society of Medicine, and President of the Obstetrical and Gynaecological Section. He was likewise the author of numerous surgical books and treatises, his principal book, "Diseases of Women," being in its ninth edition. Apart from his professional work he was a man of wide culture and considerable poetic instinct. His occasional verse included several remarkable efforts, the best-known being "The Dawn of Life," "Out of the Silence," and "A Piece of Delf and other Fragments."

**BROWNE.**—At a nursing-home, on April 25, Mr. Arthur Hubert Browne, chemist and druggist, 68 Gore Park Road, Eastbourne, second son of Mr. Henry Robert Browne, Ph.C., Eastbourne.

**GRIVAN.**—At Liverpool, on April 29, Mr. John Grivan, chemist and druggist, 289 Scotland Road.

**HERINGTON.**—At Dunstable, on April 26, Mr. Joseph Henry Herington, chemist and druggist, aged sixty. Mr. Herington qualified in 1873, and before joining his father's business was an assistant with Randall & Son, Southampton. Mr. Frank E. Herington, chemist and druggist, son of Mr. J. H. Herington, is now carrying on the business at Dunstable.

**ROBERTS.**—At The Willows, Poulton-le-Fylde, on April 10, Mr. William Henry Roberts, Ph.C., aged sixty-six.

### Died on Service.

**BARKER.**—Private Harry Barker, Machine-gun Corps, was killed in action on March 23, aged thirty-three. Private Barker was the youngest son of Mr. Robert Barker, chemist and druggist, and brother of Mr. Robert Barker, chemist and druggist, both of Buckley.

**COLLIS.**—Lance-Corporal Leonard Collis is reported killed in action. Till enlistment Lance-Corporal Collis was an apprentice with the late Mr. F. B. Bennett, chemist and druggist, Whitehaven.

**HESMONDHALGH.**—Private R. Hesmondhalgh, A.S.C., has been killed in action, aged twenty-seven. Private Hesmondhalgh, who in civil life was with W. Parkinson & Son, wholesale druggists, Preston, had been on active service for nearly three years.

**JOHNSON.**—Major George Bernard Johnson, D.S.O., R.F.A., has been killed in action, aged thirty-seven. Major Johnson was a partner in the firm of J. H. & S. Johnson, wholesale druggists, etc., Liverpool, and for ten years prior to the outbreak of war was an officer in the Territorials.

**ROBERTS.**—Private R. H. Roberts, R.A.M.C., has been killed in action. Prior to enlistment Private Roberts was with Thompson & Capper, Ltd., chemists, Boar Lane, Leeds.

**ROBERTSHAW.**—Private Harry Robertshaw, Irish Guards, has died of wounds. Private Robertshaw enlisted in 1914 from a Manchester branch of Boots, Ltd.

**SUTTON.**—Second-Lieutenant Herbert L. Sutton, Royal Air Force, was killed on April 22 while flying in Lincolnshire. Second-Lieutenant Sutton, who prior to enlistment was apprenticed to Mr. J. R. Cave, chemist and druggist (J. R. Cave, Ltd., chemists, Southport), was commissioned in December 1917, and was one of four brothers on active service. The funeral took place on April 27 with military honours.

**TATUM.**—Lance-Corporal Robert William Tatum, Northumberland Fusiliers, has died of wounds received in action, aged twenty-five. He enlisted from the Nelson branch of Boots, Ltd.

**WALKER.**—Lance-Corporal John Walker, Manchester Regiment, is reported killed in action. Prior to joining the Forces in May 1916, Lance-Corporal Walker was an apprentice to Mr. Frank P. Pick, Ph.C., St. James's Street, Burnley.



## Personalities.

MR. E. RADCLIFFE has been appointed dispenser to the Ashton-under-Lyne Board of Guardians.

MR. J. A. DALE, chemist and druggist, has been elected Vice-President of the Stoke-on-Trent Traders' Association.

ALDERMAN HENRY DUNN, Ph.C., Shipley, has, on his retirement from the chair of the West Riding Education Committee, been the recipient of a cordial and unanimous vote of thanks from the Committee.

MR. JOHN H. NIDD, chemist and druggist, 166 and 714 Rochdale Road, Manchester, has been elected President of the Manchester Pharmaceutical Association.



Photo.]

[J. Cleworth.

Mr. Nidd, who was apprenticed in Boston, qualified, after gaining further experience, in 1891, and settled in Manchester, where he owns two pharmacies. With the inauguration of the National Health Insurance scheme, he was elected a member of the Manchester Pharmaceutical Committee, and in that capacity has rendered invaluable service (see *C. & D.*, 1916, p. 873). In 1916 he succeeded Mr. Harry Kemp as the chemists' representative on the Manchester Insurance Committee, and last year was elected a Vice-President of

the Manchester Pharmaceutical Association. His choice as President is very popular with his fellow-chemists.

SIR JOHN BRUNNER has resigned the chairmanship of Brunner, Mond & Co., Ltd., and Mr. Roscoe Brunner has been appointed to succeed him. Sir John was born in Switzerland seventy-six years ago, and came to this country when a young man. He began his business life in Liverpool, thence went into chemical-works at Widnes, and in 1873, along with Ludwig Mond, established the alkali-works at Northwich, which have now developed into a concern with a capital counted in millions. The present company was registered in 1881, and Sir John Brunner has been chairman of the directors since 1891. He will continue to have a seat on the board.

## Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

BRADFORD-ON-AVON.—Temporary exemption was refused to Mr. G. A. Fricker, apprentice to Mr. R. T. Christopher, chemist and druggist.

BROMLEY (KENT).—Mr. R. A. Ward, assistant with Mr. E. E. Allen, chemist and druggist, was exempted for three months.

COLCHESTER.—Mr. J. McBryde, chemist and druggist, manager for Mr. W. E. Everett, chemist and druggist, St. Botolph Street, was conditionally exempted.

FULHAM.—The case of Mr. H. B. Lake, chemist to the Manbré Saccharin Co., was referred to the Tribunal at Guildford, where he is shortly to take up another appointment.

GILLINGHAM (KENT).—Mr. C. E. Beveridge, chemist and druggist, and his assistant, Mr. J. H. Terrington, chemist and druggist, were given three months' exemption in place of conditional exemption.

HUNGERFORD.—Exemption was renewed to Mr. Arthur H. Bingham, chemist and druggist.

LEICESTER.—The Military Representative stated that the Tribunal would be relieved of the need of dealing with a number of cases, in consequence of an agreement which had been reached with the Pharmaceutical Association whereby a number of men were to be released. He wished to take the opportunity of thanking the Association.

LIVERPOOL.—Mr. Stopforth, a partner in Rowand & Co., wholesale druggists, Vauxhall Road, was exempted for two months; a foreman in the firm's employ was exempted for twelve months.

MALVERN.—The Volunteer condition previously attached to the exemption of Mr. A. S. Clarke, Ph.C., was struck out in consequence of a medical certificate produced by him.

MORECAMBE.—Mr. R. G. Postlethwaite, chemist and druggist, was conditionally exempted.

NUNEATON.—Mr. H. Evans, assistant with H. Lester & Son, chemists, was exempted to May 31.

## Trade Notes.

KEMSUN ENEMA.—Chemists' Sundries, Ltd., Manchester, call attention to the Kemsun sterilisable enema, which is offered at 33s. per dozen. The enema is of British manufacture.

DENTAMINT.—The wholesale prices given in the last issue of the *C. & D.* in the advertisement of Cuxson, Gerrard & Co., Ltd., Oldbury, should have been No. 693A, 4s. 9d. per doz.; No. 693, 7s. 6d. per doz.

COOK'S NICOTINE SPRAY, a compound of nicotine, quassia, liver of sulphur, and soft soap, is in demand for making an insecticide spray for fruit-trees and potatoes. Particulars are given in the advertisement in this issue of Edward Cook & Co., Ltd., Bow, E. 3.

THIOCOL.—The Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C., ask us to point out that thiochol is of Swiss origin. Its association with German chemicals in the list published in the *C. & D.*, April 27, p. 39, may have given an impression that it is also German.

VIROL PRICES.—Virol, Ltd., 148-166 Old Street, London, E.C. 1, have been obliged to increase the prices of Virol to the trade and the public. The new prices, which took effect on May 1, are 2-oz. size, retail 1s. 1d. wholesale 11s.; 5-oz., 1s. 10d., 19s.; 14-oz., 3s. 3d., 34s. Virolax has been increased to 9d. and 2s. 4d., wholesale 7s. 6d. and 24s.

DORMIGENE.—Allen & Hanburys, Ltd., Bethnal Green, London, E.C., send us samples of Dormigene, or brom-isovaleryl-urea. It will be remembered that the company obtained some time ago a licence to use the Bromural patent, and having laid down special plant for the manufacture of the product are now in a position to offer it to the trade in powder and tablet form. It is the first time this chemical has been made in this country on a commercial scale. Dormigene is an efficient nerve-sedative and hypnotic, and has the advantage of being safer than any of the products of the group to which it belongs. The tablets are sold in tubes of ten at 2s. 9d., including medicine-stamp.

"SOTOL".—The Western Dental Manufacturing Co., Ltd., send us samples of "Sotol" effervescent mouth-wash tablets, which the company is advertising widely in the Press. Each tablet makes 4 oz. of an antiseptic gargle or mouth-wash. The tablets are rapidly soluble without stirring, and the solution has a distinctive colour, and leaves a pleasant "dental" impression on the palate. This company also supplies "Wesdenin," a perfumed antiseptic essence for use in a spray or in the bath, "Klenzit," a dental-plate soap, and "Hydro-Suctine," an antiseptic powder for assisting the wearing of dentures. The increasing attention given to oral sepsis makes the present a favourable time for pushing the sale of specialities for the teeth and mouth.

"STANDARD" RETAIL LIST.—Mr. Charles Philip, 23 High Street, Herne Bay, has sent us a copy of the new quarterly issue of his "Standard" retail-price list of drugs, tablets, bottles, packed goods, lozenges, and surgical dressings, which sells at 1s. post free. The new list is the largest that Mr. Philip has produced, prices of over a thousand items being given, these including all the articles in regular demand. A short explanation is given at the beginning of the list of the principles upon which it is compiled, and as these are founded upon a scientific basis the result is a system that will be fair to all parties. We note that the attention of Associations is called to the rules for rounding-off prices where these are required owing to local and other conditions. It is a sign that the list is becoming more appreciated to find that there is a demand for its production at shorter intervals. Mr. Philip is inviting the opinions of his subscribers on this point, as the subscription price will need raising if such a step is taken.

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

61/47, "Paragon" shield	68/27, Stearn's (or Stern's)
58/51, "Taxi" brand dentifrice	"Electric liniment"
56/46, Horrocks's bath towels	68/44, Sister Norah's ear-caps
66/52, "Neverfail" stoppers	59/60, "Pointing Hand" brand menthol and borax lozenges
66/54, "Idyl"	61/48, "Auto Soaper" (Boyd's)



## Observations and Reflections

By Xrayser II.

### The Views of All the Council Candidates

(bar one) are now before your readers, and I suppose that better data for a choice were never given us. There never was a time in which our choice carried graver issues, or when that fact was more acutely realised. Of the three men who figure in your last week's issue, all of whom are new candidates, Mr. Melhuish appears to be the most conservative, as Mr. Wolff is certainly the most audacious; Mr. Kirkpatrick makes the best single point by his demand for a Central Council, if, as I suppose, this is equivalent to Mr. Skinner's permanent Executive Committee. But all these three are good men; any one of them might with advantage supply the place of one of the retiring six. I spoke last week against voting for any group *en bloc*, and this applies to the new as well as to the old men, but there are at least five of the former (*man*, it will be remembered, embraces *woman*) whom I hope to see well placed on the poll. Other things being equal, or anything like equal, we should choose men of energy and of forward-looking mind. We do not so much want men pledged to a particular policy as men capable of taking opportunity by the forelock and framing a policy as occasion arises.

### The Face Values Committee

won, hands down, on every single point discussed in their interview with the Council of the P.A.T.A. A more convincing triumph, whether in principle or in dialectic, could not have been achieved. As regards the former, the Committee are warmly to be congratulated on the persistence with which they stuck to the one point of face-value. The question of profit, important as it is, they did right to treat as subsidiary to that. It can best be arranged afterwards, with the individual proprietor, but the insistence on one price, and that the nominal price, of every article is essential to the maintenance of our dignity as something more than mere hucksters. The reply of the deputation to the Council's final objection to their action was crushing—a real "knock-out blow."

### The Rebate on Spirit

to which chemists and druggists are under certain conditions entitled is, I fancy, rarely claimed by the retailer, though there must be a good many whom it would pay to take the little trouble involved in getting it, and this will be more than ever the case now that the duty has again been raised. The method of claiming this rebate was fully explained in the *C. & D.* of December 18, 1915, and a copy of the declaration required was appended. Those of my readers who bind, or at least file for reference, each year's issues of the *C. & D.* will need no further direction. May I say that since I began to do this I have fully realised the exceeding value of your publication as a business asset?

### The Admirable Letter

of the North British Executive to the Local Government Board on the subject of the Venereal Disease circular, is especially noteworthy for the fact that it directly contravenes what we have been officially told more than once with regard to the legality of supplying drugs capable of being used as remedies for such disease when they are demanded of us. Has the Square climbed down in this matter, or is there a difference of opinion between it and the North? Be this as it may, the assertion of our right to sell what we are asked for is well made, and the boldness with which it is made cannot but win respect for us. It is one of the points on which the maintenance of our professional status is vital to our best interests.

### In his Paper on Trade-marks

Mr. S. W. Woolley did well in basing his argument in support of the new Patents Bill mainly on the ground of public utility, for that is the

only ground on which it can really stand. This matter ought not to be regarded solely from the point of view of our own trade interests, or as a defence against "German trickery," though these were naturally mentioned as contributory. Germans are not the only, although they are the chief, profitters by the existing law, and the convenience of pharmacists will never be allowed to override the public good. But basing the case purely on the ground of general utility, there is still room for argument against as well as for it. It is clear that nobody ought to have a perpetual monopoly of anything essential to the public weal, but it is not so self-evident that, phenazone and antipyrine being, *ex hypothesi*, precisely the same thing, anybody who persists in preferring to pay twice as much for the one as the other would cost him suffers any legal injury from having to do so. The remedy is in his own hands, and no law can effectually protect such stupidity. On the other hand, it is arguable that the public might be injured rather than otherwise by the use of the same name for the products of different manufacturers. Absolute identity of composition is difficult to obtain in some cases, and a certain guarantee of invariability would be lost.

### The Spelling of Saccharin

without an *e* will, I fear, have a very trifling effect indeed on the public, however desirable it may be from the scientist's point of view. The public do not discriminate very nicely between one form of a word and another. Your note on the subject is, however, worth attention, but it is a fact that when the term "saccharine" was first applied to the benzoic product it was spelled as I have here written it in inverted commas; perhaps the fact that "saccharin" (without the *e*) was already applied to the anhydride of saccharic acid may account for the other form being chosen, but, however this may be, neither form is, as you say, a happy one as applied to gluside.

### Invented Names for Proprietary Articles

are now so common that one wonders how it is that so few of them get home to the popular apprehension so as to become household words or to win a permanent place in standard English. Looking through the advertisements of a recent number of *THE CHEMIST AND DRUGGIST*, I counted nearly a hundred of such names, more than half of which were strange to me and carried no clear suggestion of their meaning with them. Some of them certainly were in themselves entirely meaningless—perhaps designedly so—and there is something to be said for such if they are sufficiently happy-sounding—so full, as Shakespeare puts it, of "dulcet and harmonious breath" as to have an inherent charm. But of only one or two of them at most could this be said; the majority had neither sound nor sense to recommend them. Of others some were too crudely obvious in meaning to have any distinctive value, while some were too far-fetched and recondite to appeal to any ordinary intelligence. These were mostly aimed at the professional rather than the general reader; they had a quasi-scientific sound, though really scientific many of them were not. Altogether the effect of these advertisements was to make me think rather poorly of the literary inventiveness of our craft. One sees after what has recently been attempted in the way of relaxing the law relating to trade-names that the achievement by them of universal popularity has its dangers to the rights of their inventors, but however the law of copyright may vary it must always be an advantage to have caught the ear of the public as such a name as "vaseline," for instance, has done. Judging by the dictionary, it is one of the rarest of achievements.

AN ARMY COMPOUNDER?—"I had no embrocation leave," pleaded an absentee at a London police court recently.

DRUG STOCKS IN BOHEMIA.—According to a Prague telegram to the "Zeit" the Vice-President of the Union of Czech Chemists states that the shortage of medicines is becoming more and more pronounced, and that it is possible that chemists will be obliged to close if the war lasts much longer.



**BRONCHITIS, ASTHMA, COUGHS,  
INFLUENZA, &c.**

## "SANITAS-INHALANT"

Is now being advertised, and should be stocked  
by all Chemists.

**2s. 6d. BOTTLES.**

*Most Effective Remedy for all Lung and  
Throat Affections.*

**The SANITAS CO., Ltd.,  
Limehouse, LONDON, E. 14.**

## BRITISH ABSOLUTE ALCOHOL

**Jas. Burrough Ltd.** *D.1. Cale Distillery, Hutton Rd.,  
LAMBETH, S.E. 11*

## Saccharin

THE amazing situation created by the scramble on the part of the Public calls for exceptional methods to relieve the pressure, no Manufacturer having had any premonition of what would be the result of offering Saccharin Tablets. Thousands of orders have arrived by every mail; our entire office staff has been kept continuously occupied opening letters, and only when matters became overwhelming had we to make a "clean cut" of accepting further responsibilities. As soon as it became obvious that we had booked as many orders as it was possible to complete with our Saccharin allowance for several weeks, we had to return all orders arriving subsequently. There was not time to consider whether a customer was of 15 years standing or one year, whether it was a big account or a small one—the only fair way was to treat all alike.

Our possible output of Saccharin Tablets is about six millions a week, and cannot be increased as additional machines have for months been unobtainable; six million Tablets could at present be disposed of hourly if the Saccharin were available.

We regret some old and valued friends have felt hurt at having their cheques and orders returned, others have a grievance because their orders have been accepted and yet cannot be executed immediately.

From both we ask consideration and patience, we are doing all that is humanly possible. We firmly believe we have done right in clearing our existing responsibilities before incurring fresh ones.

In response to urgent appeals we have instituted a waiting list for orders to follow after our present obligations are completed. Orders on this list will be dealt with in strict rotation, numbered exactly as applications are completed, and from this order of delivery we cannot depart in the slightest degree.

**The Standard Tablet Co., Ltd., Hove**

*Index Folio 350.*

## ALTERATION IN VIROL PRICES.

Notice is hereby given that after  
May 1, 1918, the prices will be as  
follow :

To the Trade.		To the Public.	
2 ounce Virol	11/- per doz. less usual discount	1/1	
5 "	" 19/- "	"	1/10
14 "	" 34/- "	"	3/3
1/2 Gallons	" 13/- each	"	13/-
Gallons	" 24/- "	"	24/-
4 ounce Virolax	7/6 per doz.		9d.
16 "	" 24/- "		2/4

**VIROL LTD., 148-166 Old Street, LONDON, E.C. 1.**

*Fletcher's Concentrated Liquors.*  
offer a perfect alternative to the discarded  
**B.P. Tinctures and Syrups.**

**FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, W.**

## Editorial Articles.

### Controlled Commodities.

WE are informed that the suggestions made last week that the books of makers of saccharin tablets would be open to the inspection of trade rivals is ill-founded. If it became necessary to examine the trade books of manufacturers' professional accountants would be employed, who would have no interest in knowing who were the customers of the firm. It is acknowledged that there have been difficulties in supplying saccharin to the tablet-makers, but the causes, which cannot be stated publicly, are unavoidable and are being overcome. In the meantime improvement is taking place in the output, and it is expected that in a few weeks the quantity available will be enough to meet the abnormal demands which are being made by the trade. With patience, the matter is expected to adjust itself before long. The following are the new prices for tablets made from British-made saccharin :

*For Bottles, Tins, or Cardboard Boxes.*

		Wholesale Price		Retail Price	
Full-strength Tablets		per doz.		per Package	
		s. d.		s. d.	
Packages of	100	...	15 7	1	7½
"	200	...	30 4	3	2
"	500	...	72 0	7	6
Half-strength Tablets					
Packages of	100	...	9 8	1	0
"	200	...	18 4	1	11
"	500	...	44 0	4	7

Terms strictly net as before.

In envelopes 1d. per 100 less, as before.

It will not be necessary to destroy labels or envelopes which were already printed, as authority has been given to use the following additional label on the package :

"On account of the increase in duty, the retail price is now 1s. 7½d."

This is for bottles of 100; the prices for others sizes are as given in the above scale. No change has taken place in regard to the restriction on the use of uncontrolled saccharin by makers of tablets made from British saccharin. We are assured that the position is improving, and that the allocation of saccharin is being made strictly in accordance with the relative output of tablets as it existed before the British chemical was available. The manufacturers tell us that never before have they had such a rush of orders to cope with, and that it has been necessary to







war, entered into combinations with a view to reasserting and strengthening their position in the world's markets after the restoration of peace. In the general conclusions come to it is pointed out that in the rise and expansion of the more modern branches of industrial production the United Kingdom had, immediately before the war, taken a very limited share. This is shown by our relative weakness in respect of the electrical, chemical, and chemico-metallurgical trades. Certain branches of production, of great importance as a basis for other manufactures, had come to be entirely or very largely under German control. Among examples given are tungsten, synthetic dyes, artists' colours, photographic developers, fine chemicals, thorium nitrate, synthetic drugs, magnetos, optical glass, chemical glassware, bronze powder, and filter-papers. It is pertinent likewise to note the conclusion regarding the progress of Germany in overseas trade, due in a large measure to the United Kingdom being hampered by the influence of history and tradition. Thus:

Further, in these and in the older branches of industry, Germany started with all the advantages of completely modern equipment and without the handicap of a traditional organisation. From the first there was in Germany complete recognition of the great value of the application of science to industry and the close co-operation of the two; this, though most strikingly exemplified in the chemical-trades, may fairly be said to be characteristic of German industry as a whole. Among British manufacturers, though there were some marked exceptions, there was, speaking generally, no such recognition. Moreover, the very success of individual enterprise in the United Kingdom had had the result that British industries were carried on in the main by great numbers of small concerns operating on a limited scale and suffering from all the resultant disadvantages, but nevertheless, as a rule (though there were some very important exceptions), reluctant to merge their individuality into larger concerns, or even to enter into any effective scheme of co-operation for common purposes. In Germany, on the other hand, the principle of combination has been readily and widely adopted both in respect of production and of marketing.

In the development of Imperial resources the war has directed special attention to the fact that a large number of raw materials have hitherto been produced on an appreciable scale, but to an insufficient extent. Conspicuous examples are antimony, bauxite, copper, graphite, rock phosphate, and petroleum. Examples of materials not produced at all within the Empire, "or produced on a quite insignificant scale," include potash, borax, quicksilver, nitrate of soda, sulphur, bismuth, cinchona (quinine), ipecacuanha, iodine, and coca (cocaine). Among the industries essential to the future safety of the nation is the chemical industry. In addition to synthetic dyes, in respect of which Government action has already been taken to secure the maintenance of a permanent supply in the United Kingdom, detailed recommendations were given in an interim Report, dated March 16, 1917, regarding optical and chemical glass, thorium nitrate, and "certain drugs." As regards the last-named, the Report states that, in addition to a Memorandum from the National Health Insurance Commission already published, the Committee had received valuable memoranda from the Pharmaceutical Society and the War Office. As regards the treatment of aliens in commerce and industry in this country, the Committee recommend that all pilots and patent agents should be British-born subjects, and in the case of essential industries financial assistance, if given from public funds, should be confined to firms entirely British in character. There is a long and valuable chapter (vii.) on industrial and commercial organisation, in which special attention is given to increased activity in industrial research and the necessity for the application of more scientific methods to processes and organisation. In the chapter on "Fiscal Policy," matters likely to give rise to "acute party controversy" are avoided as much as possible, and the whole question is dispassionately surveyed from all points of view. It is worthy of note, however, that those industries described in the Report as "key" or "pivotal" (and the chemical industry is one) should, in the opinion of the Committee, be maintained in this country at all hazards and at any expense. After full consideration the Committee conclude that, although

our weights and measures are capable of improvements, they are not convinced that the metric system is even theoretically superior to the British system, and they are satisfied that the practical objections to the proposed change are such as decisively to outweigh any advantages which are claimed for it. Also while they feel that a decimal coinage has some advantages over the present system, the introduction of such a change would be inexpedient at a time when the social, industrial, and financial organisation of the country will be faced with exceptional difficulties.

### Military Service Notices.

THE Pharmaceutical Society inform us that, in view of representations made by them to the Government, and of the latest developments, any pharmacist or assistant previously exempt under the regulations applicable to certified occupations who has received a calling-up notice during the past few days should immediately get into touch with the Secretary of the Pharmaceutical Committee, or, failing him, the Clerk of the Insurance Committee.

### The New Spirit-duty.

THERE has been no further statement made in Parliament as to the method by which the rebate of duty on spirit used in medicine is to be adjusted. The Finance Bill embodying the fiscal proposals of the Budget has not yet been printed although the duties came into force so soon as the Budget resolutions were passed. It is hoped that a speedy adjustment of the matter will take place, as the whole of the duty will have to be paid on spirit taken out of bond. This will amount to a very large sum and will have to be borne by the wholesale houses, as it has been decided not to advance the prices of spirituous medicines. As explained last week, the rebate will not be allowed on those tinctures and flavouring essences which are not considered to be strictly medicinal. On these preparations the following advances are being made: 90 per cent. preparations, 3s. 6d. per lb.; 70 per cent., 2s. 9d.; 60 per cent., 2s. 4d.; 50 per cent., 2s.; 45 per cent., 1s. 9d.; 20 per cent., 10d.; 10 per cent., 5d.

### Overseas Trade in March.

THE Board of Trade Returns for March show that imports amounted to 107,235,460l., an increase of 26,039,590l. compared with March last year, and British exports to 36,002,315l., or 8,108,816l. less than last year. Re-exports also fell by 4,377,980l. to 3,191,527l. Details of imports of oilseeds, nuts, oils, fats, and gums have for the first time been suppressed, the value (7,155,317l.) only being given. There was the substantial increase of 1,142,691l. in imports of chemicals, drugs, dyes, and colours, receipts amounting to 3,374,681l.; the bulk of this increase was in "unenumerated chemicals," which rose from 379,053l. to 1,589,999l. Acetic-acid imports (13,256 cwt.) were well maintained; there was, however, a substantial decline in boron compounds, sulphur, and saltpetre, while calcium carbide, glycerin, tartaric acid, and soda compounds show improved figures. Quinine imports declined from 458,642 oz. to 170,862 oz., but receipts of cinchona rose from 2,099 cwt. to 3,818 cwt. On the export side there was a decline of 142,197l. in chemicals and the like to 1,818,602l., about the only bright spot being the much larger shipments of copper sulphate for the month—viz., 6,958 tons, against 3,919 tons last year, and for the quarter ended March there is an excess of over 5,000 tons compared with the March 1917 quarter. Exports of medicines and medicinal preparations were again less at 253,443l., a decline of 70,201l., while the quinine figures were on a much reduced scale so far as British-made goods were concerned. Soda-compound exports were practically halved, falling from 467,517 cwt. to 242,466 cwt.

THE hydrogenisation of whale oil is being carried out at Walsall with success.

BOILED LINED OIL will keep polished metals from rusting if allowed to dry on them.



## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

### INCOME-TAX ALLOWANCES.

The Chancellor of the Exchequer stated in the House of Commons, on April 24, that the word "dependant" in his Budget statement (*C. & D.*, April 27, p. 43) includes a child over sixteen mentally or physically defective, and an entirely dependent relative, such as an invalid father who is maintained by his son.

### CRIMINAL LAW AMENDMENT BILL.

In addition to the Sexual Offences Bill (*C. & D.*, April 27, p. 45), the Criminal Law Amendment Bill has been introduced into the House of Lords. It seeks to amend the Criminal Law Amendment Acts, 1885 to 1912, and to re-enact, with amendments, the Indecent Advertisements Act, 1889, and Section 2 of the Venereal Disease Act, 1917.

### DECIMAL COINAGE BILL.

This Bill was introduced by Lord Southwark in the House of Lords to sanction a decimal system of coinage. It is provided that "each coin shall be a thousandth part of the multiple of a thousandth part in value of a sovereign, and such part is in this Act called a 'mil.'" Bronze coinage is to be divided into 1, 2, 3, and 4 mil pieces, and a 5-mil and a 10-mil piece of nickel or other metal or alloy are proposed. The silver coins proposed are a quarter florin (25 mils), half-florin (50 mils), florin (100 mils), and double florin (200 mils).

### DENTISTS ACT INQUIRY.

Our Parliamentary correspondent learns that the Departmental Committee which for some time past has been inquiring into questions relating to the Dentists Act has suspended for the moment the taking of evidence. At its last meeting the Committee was engaged in hearing witnesses regarding the third part of its inquiry—namely, that relating to the curriculum question. Mr. F. D. Acland, M.P., it will be noted, the Chairman of the Committee, has just been appointed Chairman of the House of Commons Select Committee on Luxuries under the new Budget.

### MILITARY SERVICE.

Mr. Wing asked the Prime Minister if the Government have come to any decision in the direction of protecting men who may be called up and are proprietors of businesses in premises under long leases at heavy rents, and also whose financial existence is imperilled by the whole of their men being called up and their shops closed in consequence; and whether he will consider the provision of remedies, such as suspension of leases, while men are called up, or provision of rent while such are serving.

The President of the Local Government Board (Mr. Hayes Fisher), who replied, said he was afraid he could not hold out any expectation that it will be possible to make further provision than is made at present for relieving hardship in the cases referred to.

### METHYL ALCOHOL.

Sir W. Pearce, on April 29, asked the Chancellor of the Exchequer (1) if he will grant the free use of pure methyl alcohol, undenatured, for industrial purposes for which it is shown to be essential to the satisfaction of the Board of Customs and Excise, and under similar conditions for which permission is at present granted for the use of industrial spirit; and (2) if he is aware of the importance of pure methyl alcohol, undenatured, in chemical industry, and of the present difficulties which hinder the development of manufactures requiring its use; and if he proposes to take any action in the matter.

Mr. Bonar Law, in reply, said the Board of Customs and Excise are aware of the importance of pure methyl alcohol, undenatured, in chemical industry, and have already decided to allow its use for certain purposes—*e.g.*, in the manufacture of fine chemicals—subject to certain conditions, but they would reserve to themselves the right to require the spirit to be denatured when the circumstances seemed to them to justify that course. The conditions to be imposed would be on the lines of those governing the use of industrial methylated spirits.

### THE LUXURIES TAX COMMITTEE.

The Select Committee proposed by the Chancellor of the Exchequer in the course of his recent speech, for the purpose of deciding upon a schedule of luxuries under the new Finance Bill, was formally set up on April 30. It will commence its operations directly. The Chairman of the inquiry is Mr. F. D. Acland, M.P., who has had considerable experience in the conduct of such Committees, and notably as Chairman of that which at the moment is inquiring into the Dental Acts. The other members of the Com-

mittee are Sir John Harwood-Banner, Mr. Brookes, Mr. Butcher, Mr. Davison Dalziel, Sir Henry Dalziel, Mr. Timothy Davies, Sir Edward Goulding, Mr. Hinds, Mr. Kennedy Jones, Mr. Kiley, Mr. Partington, and Mr. Tyson Wilson.

The Select Committee held its first meeting at the House of Commons on May 1, when Mr. F. D. Acland, M.P., was elected Chairman. The inquiry will be conducted in private, and the next meeting will be on May 3. It was decided to appoint four Sub-Committees to prepare schedules of luxury articles in various trades for submission to the General Committee at a later date. The work of one of these Sub-Committees will include, it is stated, certain articles retailed by chemists and druggists.

### OPIMUM-SMUGGLING.

Sir W. Collins, on April 25, asked the Under-Secretary of State for Foreign Affairs whether he can now state the total amount and value of the opium which was exported from London and smuggled into Shanghai in October and November 1917; what was the nature of the innocent cargo under cover of which the opium was concealed; whether the consignment was packed in tin-lined cases; how this consignment of opium escaped discovery before leaving London; and what has been done with the opium seized at Shanghai.

Mr. Balfour replied that the total amount and value of the opium is not known, but there has not yet been time for a full report or newspaper account of the proceedings against the actual exporter, an American citizen, named Woodward, referred to in the previous answer, to reach this country. The opium was concealed in a consignment of water-softener and soft soap. It is not known whether the consignment was packed in tin-lined cases. Inquiries made suggest that this was the case, but there is no definite record to that effect. Privy Council licences were obtained for the water-softener and soft soap. There was no reason to doubt the truth of the statements made on the relative shipping documents, and the Customs examination did not suggest any suspicions. He understood that it is the practice of the Chinese Maritime Customs to confiscate and destroy, usually by burning, any smuggled opium which they may seize.

## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Reports from Local Centres.

#### ENGLAND.

**Essex.**—The Insurance Committee met at River Plate House, London, E.C., on April 30, Mr. J. H. Burrows presiding. The following payments were ordered: To the East Anglian Joint Pricing Committee (on account), 206*l.*; to chemists, 517*l.* 16*s.* in final settlement for 1917 and 2,703*l.* 13*s.* 4*d.* for the quarter ended March last. Mr. C. Goode was appointed a member of the Joint Pricing Committee. The Chairman and Vice-Chairman were authorised to take such action as they deem necessary in regard to the calling-up of doctors and chemists for military service.

**Kent.**—At the meeting of the Kent Insurance Committee at Maidstone on April 24, the following statistics for 1917 were submitted: Prescriptions dispensed, 574,478; value of scripts, 16,192*l.* 17*s.* 2*d.* (ingredient-prices 9,244*l.* 1*s.* 6*d.*, dispensing-fees 6,948*l.* 15*s.* 8*d.*); average value per prescription, 6.76*d.* (ingredient-price 3.86*d.*, dispensing-fee 2.90*d.*). The Committee acceded to a request of the Joint Pricing Committee that contributions to that Committee should be made quarterly in advance. The Joint Committee intimated that in all probability an additional amount would be required to carry on the work. It was reported that the Commissioners had approved of the estimate of expenditure of the Pharmaceutical Committee (450*l.*) for 1918, and advances within the limit of the estimate were sanctioned. The Medical Benefit Sub-Committee reported on the threatened shortage of lint, wool, gauze, etc., which is now being considered by the Commissioners.

**Sheffield.**—A meeting of the Sheffield Insurance Committee was held on May 1 at the Town Hall. It was decided to add Dr. David Arnold Faris, 20 Shortridge Street, Attercliffe, to the panel. On the motion of Mr. J. T. Appleton it was decided to agree to the prices suggested by the Pharmaceutical Committee for ingredients and fees to be allowed for homœopathic dispensing. Payments were ordered to be made of 926*l.* 16*s.* 8*d.* for February and on account of March accounts; also 10*l.* to Dr. Sinha on account of persons for whom he dispenses.



## Associations' Winter Session.

**Birmingham.**—A meeting of the Birmingham Pharmaceutical Association, attended by about seventy retail chemists, was held at the Imperial Hotel on April 24 to consider the question of "Face-values." Mr. H. Buckingham (President) occupied the chair, and representatives of the Warwickshire Association were welcomed. Messrs. Hugo Wolff and G. Hampton were present to state the case on behalf of the Face Values Committee, and Messrs. Glyn-Jones and J. Keall to represent the P.A.T.A. Mr. Hampton gave a sketch of the origin and progress of the face-value scheme, and submitted that the Committee's desires were not antagonistic to the P.A.T.A., and that the present time was most opportune to bring them to fruition. Mr. Hugo Wolff stated that it was the desire of the Face Values Committee to obtain their aims in conjunction with the P.A.T.A., and that these would mean, in most cases, more profit, and that the goodwill of the public and the dignity of the craft would be enhanced by face-value. Ten years ago, manufacturers were mostly against face-value, because the bulk of the sales were in the hands of the chain stores: they were now, generally speaking, in favour, because a greater proportion were sold by individual chemists, and, in fact, most of the biggest selling proprietaries are protected at face-value. Proprietors at the present time are more desirous of obtaining the good will of the retailer, the other means of advertising being much curtailed by restrictions on paper and labour. Mr. Keall expressed himself as a firm believer personally in face-value, as are all the retail members of the P.A.T.A. Council, but declared that "price-maintenance" and "adequate profit" were conditions that must occupy first position. The combination of retailer, wholesaler, and proprietor had been the means leading to the success of the P.A.T.A., and it would not do to endanger that success by the rigid dogma insisted upon by the Face Values Committee. The Co-operative Societies could not be ignored. Mr. Glyn-Jones asked for a definite expression by the meeting, not as to whether they desired face-value (that was a matter upon which there could not be two opinions), but as to whether there was a need for two separate organisations. If face-value were the right thing to go for, then the P.A.T.A. was the body to go for it. He read the report of the meeting of a deputation of the Face Values Committee with the P.A.T.A. (*C. & D.*, April 27, p. 47), and submitted that the insistence on face-value, and refusal to accept articles offering a lower protected price with adequate profit, was inimical to chemists' interests and would endanger the working of the P.A.T.A. Mr. Wolff in his reply said that the Face Values Committee wanted the P.A.T.A. to take up face-value instead of themselves, but urged that there was scope for the Committee to work in conjunction, in order to create an opinion in the trade through the local organisations. After a discussion, in which Messrs. James, Critchlow, Mundy, Tranmer, Francis, and others took part, Mr. C. Thompson moved the following resolution, which was seconded by Mr. Griffin:

That this meeting, having heard the representatives of the Face Values Committee and of the P.A.T.A. are of opinion—

(1) That the policy of the P.A.T.A. in securing, as far as possible, the protection of proprietaries at face-value, should be supported.

(2) That the thanks of the meeting are due to the P.A.T.A. for all that it has accomplished since the memorable meeting of this Association twenty-two years ago, and that the P.A.T.A. be assured that it continues to possess the unabated confidence of Birmingham chemists.

(3) That the establishment of an additional and separate organisation with separate officers and funds to deal, even temporarily, with any aspect of price-maintenance of proprietary articles is unalled for.

An amendment was proposed by Mr. Tranmer—

That Clause 3 be deleted and replaced by the following clause: "That this meeting welcomes the advent of the Face Values Committee, which would perform useful work in conjunction with the P.A.T.A."

This was defeated by 21 votes to 17: the original resolution was then put, and carried by 26 against 12.

**Cambridge.**—A special general meeting of the Cambridge and District Pharmaceutical Association was held on April 26 at Mr. Church's, St. Andrew Street. Mr. Alderman A. Sidney Campkin, J.P., presided, and there was a record attendance. A discussion took place on face-values, in which several members took part. Mr. Evans strongly advocating the action of the Face Values Committee, and eventually moving the resolution suggested in the communication from Mr. Hugo Wolff. This was seconded by Mr. B. S. Campkin and carried unanimously, together with a further resolution agreeing to contribute 1s. per member towards the expenses of the movement.

After a considerable discussion on the new Military Service Act the following resolution was directed to be sent to Mr. Woolcock: "That this meeting of the Cambridge and District Pharmaceutical Association trusts the Pharmaceutical Society will use all its influence to protect the qualified chemist under the recent Man-power Act." Mr. Bodger (Peterborough) then addressed the meeting, and gave a cordial invitation to all Cambridge pharmacists to attend the Eastern Counties Federation meeting to be held at Peterborough on May 2, when a deputation from the Chemists' Defence Association—Mr. Rowsell (Chairman) and the Secretary to the P.A.T.A. and C.D.A., Mr. Johnston—would speak on the subject of veterinary risks. Mr. Hugo Wolff would also speak on face-values. In the course of further remarks Mr. Bodger gave some interesting particulars of how the Federation had been of great assistance to the trade generally, and further details as to the manner in which the Peterborough Association had dealt with the difficulties of pharmacists called up for military service in their own district. Messrs. J. Evans and S. F. Barker were re-elected delegates on the Council of the Federation, with Messrs. B. S. Campkin and H. Flanders in reserve. The Sub-Committee formed to promote the re-election of Alderman A. S. Campkin to the Pharmaceutical Council reported, and communications were read from the London County Pharmaceutical Association asking for support for Messrs. Keall and Melhuish, also from West Ham asking for support for Mr. J. Kirkpatrick. These were referred to the Election Sub-Committee. A hearty vote of thanks to Mr. E. H. Church for entertaining the members was carried unanimously.

**Edinburgh.**—A meeting of the Edinburgh District Chemists' Trade Association was held in the Pharmaceutical Society's House, 36 York Place, Edinburgh, on April 22, Mr. James Dick (President) in the chair, when Mr. John Muir, Secretary of the Edinburgh Burgh Insurance Committee, read a paper on *The Insurance Act: A Criticism*, dealing with the incidence of the Act as it has affected Scottish pharmacy and Scottish pharmacists, with special reference to Edinburgh. Mr. Muir said that elegance, neatness, and taste, one of the essentials for the Qualifying examination, was discouraged in Insurance dispensing owing to the conditions of service tending rather to slackness and sloth in work, the very nature of which presumed punctiliousness in every department. The liability to groundless complaints by insured persons was a particularly harassing position for the chemist to be placed in, and Mr. Muir further stated that the dispensing-fee, instead of being a little short of 2s. per hour—as everyone was led to believe it was—was actually as low as 11.9d. per hour, a payment, he averred, such as to make a common navy revolt, looking to the fact that 11.9d., as well as being payment for work done, also included shop-rent, light, and the use of tools, etc. During 1915 the full amount paid to chemists was the low total of 18s. 9d. per week per shop, out of which had to be met wholesale accounts, rent, rates, taxes, and all other expenditure, as well as giving facilities to insured persons to the extent of about seventy-seven hours per week, and night attendance if such were necessary. Mr. Muir maintains that less cause has often been given for what the politicians call "great industrial unrest," and if only a phase of such upheaval would better the position of chemists, he, for one, is prepared to try it if milder methods fail. He lays down that the *sine qua non* to negotiation is the absolute abolition of the discounting clause in the agreement. He would have the Act cleared of all anomalies, such as medical men having an interest in any moneys allocated for drugs, and would have the *per capita* standard for the Drug Fund 4s. instead of 2s. Bonuses he would abolish. They are not evidence of economy, as has been argued by some. He advocates a thoroughly representative Committee composed entirely of practising panel chemists, officed by men chosen from their own ranks; the Pharmaceutical Society or any of its paid officials, as such, being barred from taking any part in the negotiations with the Insurance Commissioners, the latter to be the Scottish Insurance Commissioners. Mr. Muir pooh-poohed the fear that had been entertained for threats to have the dispensing done by any but those to whom it had been entrusted. On the one hand he thought that the Government had been so well served in the past as to make it chary of change, and, on the other hand, if it had the temerity to change, the loss to the chemists at the present rates was well lost, and would be willingly lost in the cause of pharmacy. In the discussion which followed, Mr. Peter Boa said he thought Mr. Muir was inclined to paint the picture rather black. There were many unsatisfactory points in the Insurance Act, but it also had its good points. He was of the opinion that Mr. Muir did not mean all he said. Mr. J. Rutherford Hill said that in many essential points Mr. Muir's policy was in complete agreement with what



had always been the policy of Scottish panel chemists. It ought to be remembered that panel chemists in Scotland only signed on under protest, from which they had never departed. As to the liability of panel chemists to the lodging of complaints by insured persons, the same liability was present before the Act. With regard to Mr. Muir's proposed *per capita* standard of 4s., he had to say that his (Mr. Hill's) estimate at the inception had been 3s. 6d., and Mr. Muir was unquestionably right in urging Scottish panel chemists to see to it that conditions of service would be rendered more just than they were at the present time. Mr. Muir's figure of 11.9d. per hour for the dispensing-fee corroborated the figure submitted, on behalf of Scottish panel chemists, to the Departmental Committee. Messrs. Nisbet, Macpherson, Tainsh, Noble, Cowie, and Brown also spoke, and Mr. Muir, replying, said he was very much in earnest, and if Mr. Boa had not been so fortunate as to have a business which the Insurance Act hardly touched, he would be earnest too. Answering Mr. Hill, he said he was pleased to hear that Mr. Hill had, at the very beginning, suggested 3s. 6d. *per capita* as being a reasonable figure for drugs, but he could not see how Mr. Hill could reconcile that statement with his persistence now that 2s. was ample. On the motion of Mr. Cowie a cordial vote of thanks was awarded Mr. Muir, and a similar compliment was paid to the Chairman. On the motion of Mr. Nightingale it was agreed to seek support for Mr. Thomas Guthrie, Clydebank, for the Council election.

**Flintshire.**—A meeting of the Flintshire Pharmacists' Association was held at Flint on April 25, Mr. P. J. Ashfield (Rhyl) in the chair. The report and balance-sheet, showing a substantial balance in hand, were submitted by the Hon. Secretary, Mr. E. A. Slinn (Rhyl), and adopted. It was decided that in future the urgent affairs of the Association be conducted by a small Executive, the members meeting twice a year for general business, and that the fares be paid out of the funds of the Association. It was resolved that the Face Values Committee be heartily supported, and that a subscription in aid of the movement be at once forwarded. The President and Secretary both wished to resign from office, but were eventually persuaded to continue their work until the war ends. Various Council candidates had sent in their claims to election, but it was felt that the matter should be left to individual opinion, and that it was inadvisable for Associations to suggest any particular candidate.

**Ipswich.**—A meeting of the Ipswich Chemists' Association was held on April 30, Mr. G. N. Edwards (President) in the chair. Mr. S. L. Gray (Saxmundham) was elected a member. The desirability of applying for a closing order for Ipswich under the Shops Act was discussed, and ultimately a proposal was carried unanimously that an order be applied for, the closing-hours to be Monday, Tuesday, Thursday, 7 P.M.; Wednesday, 1 P.M.; Friday, 8 P.M.; Saturday, 9 P.M.

**Liverpool.**—The final meeting of the session of the Liverpool Chemists' Association was held at the Royal Institution on April 24, Mr. W. P. Evans presiding. Mr. J. G. Tringham (of Ayrton, Saunders & Co.'s staff) read another of his papers on *Toles that Tell, or the Art and Part of Publicity*, in which he advocated newspaper advertising and the modification of shopfronts. A discussion followed, to which Mr. Tringham replied. The Secretary was directed to write in protest against the increased exactions for syphons. It was agreed to recommend members to vote for the Council candidates adopted by the Lancashire Federation at Wigan. Circulars asking for support for selected candidates were read from Cambridge, Leeds, Derbyshire, and the Women Pharmacists' Association.

**London (S.E.).**—A general meeting of the South-East London Pharmacists' Association was held at Maitland House, Greenwich, on April 25, Mr. A. J. Wing (President) in the chair. It was unanimously agreed to subscribe 1l. 1s. from the funds of the Association to the Early Closing Association. The President then called upon Messrs. Keall and Melhuish to address the meeting, referring to the many and varied offices filled by them in the pharmaceutical world and to the good work they have done and are doing on behalf of pharmacists and pharmacy. Both candidates vigorously expressed their views, and satisfactorily answered a number of questions; and it was resolved to support their candidature. The President referred to proposed arrangements that were being instituted among members to help neighbouring chemists who might through national emergency be called away from their business, and anyone likely to be affected in this way is asked to communicate with the Secretary.

**London (S.W.).**—A meeting of the South-West London Chemists' Association was held at Stanley's Restaurant, Lavender Hill, on April 30, the President (Mr. W. H. Goy) in the chair. Seven of the candidates for the Pharma-

ceutical Council were present—viz., Miss Buchanan, Messrs. Guthrie, Leo Joseph, Keall, Kirkpatrick, Melhuish, and Hugo Wolff. The time available was allotted equally among them for a short address from each. It was left to the members to decide how their votes should be given.

**London (W.).**—A district meeting of the Western Pharmacists' Association was held at Hampstead on May 1, when Messrs. Keall and Melhuish having addressed the meeting, it was resolved to support them at the forthcoming Council election.

**Manchester.**—The annual general meeting of the Manchester Chemists' Assistants' Association was held on April 24 at the Metro Cafe, the President (Mr. D. W. Fullerton) in the chair. The annual report was read and adopted. The Treasurer's report showed a balance in hand of over 7l. The election of officers resulted as follows: *President*, Mr. A. Kelly; *Vice-President*, Mr. G. H. Livesey; *Treasurer*, Mr. B. G. Hough; *Hon. Secretary*, Mr. D. Abrams; *Auditor*, Mr. W. Kirby; other members of *Committee*, Messrs. Bramley, Chadwick, Grier, Jones, Fullerton, Swinn, and Yates. Messrs. Wm. Kirkby, W. Kirby, and J. Woodhead were elected honorary members.

**Progressive Pharmacy Club.**—The first of the lectures on "Business Methods Applied to Pharmacy" was delivered by Mr. Frederick Cherry, Ph.C., on April 16, and proved most successful in every respect. In spite of inclement weather there was an audience of more than forty, including several apprentices, whom the Committee was particularly pleased to welcome. Mr. Cherry's subject was "Practical Methods of Co-operation," and he managed to invest it with such interest as to keep the attention of his audience fully occupied throughout. At a later period it is hoped to publish the text of this and subsequent lectures to be delivered at the club. Next in the series will be a lecture on "Window-dressing and Display of Goods," to be delivered by Mr. G. E. Marfitt, of Leicester, on May 7, while on May 14 Mr. Herbert Skinner will lecture on "Scientific Method as Applied to Business."

## Colonial and Foreign News.

**REFUGEE PHARMACISTS' FUND.**—The sum of about 10,000 lire, towards which Burroughs Wellcome & Co. contributed generously, has already been raised in Italy for refugee pharmacists.

**NARCOTICS IN SPAIN.**—Transactions in morphine, cocaine, etc., in Spain are now forbidden, this step having been found desirable on account of the influx of orders for these drugs from France and Italy.

**FRATERNAL CHEMISTS.**—On the evening of February 23 a unique entertainment was held in Washington, D.C., when a reception was tendered by the Chemical Society to the large number of chemists at present residing in that city for the purpose of war duty. Through the courtesy of the Regents and Secretary of the Smithsonian Institution the handsome hall of that building was made available for the gathering, which included not only chemists from the numerous universities and technical schools throughout the United States, who are now giving their services as scientific advisers to the Government, but also a considerable number of those connected with the British and French Missions to America. The number of assembled guests, a large proportion of whom were in uniform, was more than four hundred, and among them may especially be noted two well-known British chemists who are Fellows of the London Chemical Society, Major Samuel J. M. Auld and Major Henry R. Le Sueur. After an address of welcome by the President of the Chemical Society, Dr. Frederick B. Power, and by Dr. George P. Merrill, Curator of Geology in the U.S. National Museum, on behalf of the Smithsonian Institution, brief addresses were made by the following gentlemen: Professor Frank W. Clarke, chief chemist of the U.S. Geological Survey; Professor Charles L. Parsons, chief chemist of the Bureau of Mines and Secretary of the American Chemical Society; Major Samuel J. M. Auld, of the British Gas Defence Service; Chancellor Samuel Avery, of the University of Nebraska; and Professor Wilder D. Bancroft, of Cornell University. The hall of the Institution was beautifully decorated with the national colours and the flags of all the Allied nations, while throughout the evening patriotic music was rendered by an excellent orchestra. The national anthems of Great Britain and France were especially honoured and followed by much applause. After the serving of refreshments an opportunity was afforded for social intercourse, and the entire entertainment was pronounced a delightful one by all who participated in it.



## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

### 42 Cannon Street, E.C. 4, May 2, 3 p.m.

In these critical days the news from the Western Front is eagerly scanned and discussed, and until the situation becomes clearer there is less zest and inclination for business, even though the war news during the last two or three days has been of a heartening character. In this general lull the position as regards supplies remains as difficult as ever, the scarcity becoming greater, while the consumptive demand goes on without intermission. The consignments of chemicals per the "Storaker" have relieved the situation a little, but permits for granting shipments from the United States are doled out very sparingly. It must be remembered that the demand for tonnage is immeasurably greater than before, and war demands take precedence, and will do so for some time to come, so that we may look for still fewer imports from the United States. Consignments from France and Switzerland also continue to fall off, this being due to the congested state of the railways and shipping difficulties. On the other hand, three Italian steamers with full cargoes of produce have arrived in London and the North. Market price alterations include firmer rates for citric and tartaric acid and cream of tartar. Methyl salicylate is rather dearer; benzonaphthol and phenolphthalein are firmer. Hydroquinone, potash bromide, and quinine are easier. Other changes include higher prices for aloin, celery-seed, turmeric, Japanese vegetable wax, lead acetate, and lithopone. Farina, arrowroot, agar-agar, and honey have a downward tendency. Saccharin (imported) is dearer.

Higher	Firmer	Easier	Lower
Aloin	Antimony	Bleaching-	Agar-agar
Celery-seed	(crude)	powder	Arrowroot
Cream of tartar	Benzo-	Honey	Farina (Jap.)
Lead acetate	naphthol	Hydroquinone	Soda acetate
Lithopone	Citric acid	Potash	Turpentine
Methyl	Egg-yolk	bromide	
salicylate	Phenol-	prussiate	
Saccharin	phthalein	Quinine	
(imported)	Tartaric acid		
Soda phosphate	Tonka-beans		
Turmeric			
Wax, veget.			
(Jap.)			

The drug-auctions will be held next Thursday, May 9.

### Cablegram.

NEW YORK, May 2.—Business is fair. Opium is lower at \$23.75 per lb. Gentian has advanced to 15c., and Cartagena ipecacuanha to \$2.80. Cascara sagrada is higher at 14c. Morphine sulphate has been reduced to \$11.80 per oz., and quinine sulphate in second-hands is higher at \$1.30 per oz.

ACETIC ACID.—It is reported that new plants for the manufacture of acetic acid are being erected in this country, but the output is to be devoted to Government requirements. There is, therefore, little hope of relief to consumers from this source.

AGAR-AGAR is quiet at 4s. 3d. on the spot for No. 1 Kobe strip, and at 3s. 3d. c.i.f. for April-June shipment.

ALLOIN is dearer, English makers quoting 6s. 9d. per lb., and recrystallised at 12s.

ANISE OIL, STAR, is quiet, with sellers of "Red Ship" at 4s. 6d., and at 4s. 1½d. c.i.f.

ANTIMONY.—Although there is little change in crude or regulus, it is more difficult to find sellers at the bottom figures quoted on the spot of 43l. and 74l. respectively, because the recent cheaper sellers have been practically relieved of their holdings. There is now an idea that any important change must be for the better. The more general quotation for crude is now 45l., and for regulus 76l. to 78l. The New York market is firmer, first-hand sellers being reticent, with practically no second-hand material offering. Chinese interests state that costs of producing and shipping are very high, and this must tell when the demand revives.

ARSENIC.—Buyers are fairly keen upon obtaining supplies when they come on offer, but stocks do not appear sufficient to satisfy all the demand. Japanese has again been sold at 120l. per ton, and the spot value of best Cornish powder is about 130l. per ton.

ASPIRIN is practically unchanged at from 12s. 6d. to 13s. per lb. No supplies appear to be coming forward from the Continent and little from America, so that reliance has to a great extent to be placed on English make.

BENZALDEHYDE free from chlorine is available at from 19s. to 20s. per lb. on the spot.

BENZOATES are unchanged, with makers still behind in their deliveries. Stocks are small, and when the seasonable demand sets in the shortage will be pronounced.

BENZONAPHTHOL is firmer at from 42s. 6d. to 45s. per lb. on the spot.

BLEACHING-POWDER is rather lower, with parcels from second-hands offering at 18l. per ton.

BROMIDES.—Some stocks of Japanese potash held by dealers which have been selling from 10s. 6d. to 10s. 3d., have given an easier tone to the market; soda is 5s. 6d., and ammonia is as scarce as ever at 10s. to 10s. 6d. A fair-sized quantity of soda has arrived from the U.S.A., and this should relieve the situation a little in this salt.

CALCIUM ACID PHOSPHATE in ton lots, guaranteed absolutely free from arsenic, is selling on the spot at 126l. per ton.

CAMPHOR is quiet, with sellers of Japanese slabs at 4s. 6d. on spot, 4s. 4½d. afloat, and 4s. 4½d. c.i.f. for May-July shipment; ½-oz. tablets are 5s. 6d. on spot and 5s. 3d. for May-July shipment. The exports from Japan during January of the past three years were as follows:

	1916	1917	1918
Kin ... ..	484,624	259,546	100,498
Yen ... ..	441,687	347,027	187,324

The destinations were as follows:

	1916	1917	1918
Kin	Kin	Kin	Kin
British India ...	117,260	63,165	48,454
Asiatic Russia ...	12,172	—	—
Great Britain ...	128,364	8,618	20,520
France ... ..	51,030	—	—
United States ...	159,132	178,799	13,762
Australia ... ..	8,240	181	6,118
Other countries ...	8,426	8,783	11,624
	484,624	259,546	100,498

CAMPHOR OIL.—The exports from Japan during January of the past three years were as follows:

	1916	1917	1918
Kin ... ..	8,192	74,585	17,722
Yen ... ..	1,174	15,372	3,236

CASSIA OIL remains firm at 6s. 11d. to 7s. per lb. on the spot for 80 to 85 per cent., and to arrive from 6s. 3d. to 6s. 9d. c.i.f. is quoted, as to position and seller.

CELERY-SEED is dearer, spot holders asking 180s. per cwt. for French.

CHLORAL HYDRATE remains firm, and it is difficult to buy crystals below 12s. 6d. per lb. net in bond; import duty is 3s. 6d.

CITRIC ACID is again firmer at from 3s. 3d. to 3s. 3½d. per lb. on the spot.

CLOVES are quiet, with sellers of fair Zanzibar at 2s. 5d. on spot.

COCAINE.—Stocks of hydrochloride have been reduced to a minimum, and there are still no advices of fresh consignments.

COPPER SULPHATE.—A few small inquiries have reached merchants from Continental ports, but permits are held up, and f.o.b. business is thus virtually impossible, the price being nominal at 66l. The home demand is very quiet, the fixed price being 52l. for May-August delivery net at works. The shipments to France against the special arrangements in force are believed to be making satisfactory progress.

CREAM OF TARTAR is dearer at 430s. per cwt. on the spot. The usual discount on this product is 2½ per cent., but some firms are now offering "net." Supplies are coming along more freely, about 400 packages (mostly casks) having arrived.



**EGG-YOLK.**—A large business has lately been done at rising prices, including Chinese dried yolk at 1s. 11½d. to 2s. per lb., and for dried whole 4s. 3d. is asked. Prime egg albumen is firm at 4s. 2d. spot.

**ERGOT** remains firm and scarce, with Spanish to arrive offering at about 4s. per lb. c.i.f.

**EUCALYPTUS OIL.**—Although fair-sized quantities have again arrived, it is now stated that the Shipping Control Board have issued a notice that no further shipping space is available. Rather over four thousand cases have been received in London and Liverpool this year, so that in the absence of further arrivals the market will be well supplied for the remainder of the year.

**FARINA** is nominal at 84s. spot for No. 1 Japanese.

**FORMALDEHYDE.**—The present unsatisfactory situation continues, and buyers who are urgently in want of supplies find they have to go without, owing to lack of appreciation of the situation by the Government.

**GALLIC ACID** of English make is obtainable at from 6s. to 6s. 3½d. per lb. on the spot.

**GALLS.**—Sales of Chinese have been made at 165s. on the spot.

**HEXAMINE** is in fair inquiry, and in spite of the recent arrivals is rather firmer at 9s. 3d. on the spot.

**HONEY** has shown an easier feeling of late owing to substantial consignments of new crop having arrived, in addition to which it is felt that retail prices are already sufficiently high. Good pale set Cuban on the spot is offered at 187s. 6d. to 190s., and fine white set at 192s. 6d. Californian has been sold at 195s.

**HYDROQUINONE.**—The arrivals per the "Storaker" have relieved the situation somewhat, and the spot price of 17s. 6d. net can be eased.

**INSECT-FLOWERS.**—Japanese continue plentiful on spot at from 160s. to 165s.

**LEAD ACETATE** is dearer at 160s. per cwt. for white crystals in casks.

**LIQUORICE-ROOT.**—Cut decorticated Italian is offering in limited quantities at 155s. per cwt. on the spot.

**LITHOPONE.**—American white is in limited supply at 70l. per ton on the spot.

**LYCOPodium** has sellers at 6s. per lb. on the spot.

**MENTHOL** lacks support from speculative interests, and not until the shipments from Japan fall off is it likely to receive attention. The spot price of Kobayashi-Suzuki is 14s. 3d., and 13s. 9d. c.i.f. The exports from Japan during January of the past three years were as follows:

	1916	1917	1918
Kin ...	42,597	16,415	15,302
Yen ...	265,791	113,837	86,280

The destinations were as follows:

To	1916	1917	1918
	Kin	Kin	Kin
British India...	2,325	657	3,143
Great Britain...	24,637	13,088	3,629
France...	7,232	—	—
United States...	7,797	2,489	8,325
Other countries	606	181	245
	42,597	16,415	15,302

**METHYL SALICYLATE.**—Stocks are in very small compass on spot, and the higher rates of from 11s. 6d. to 12s. have been freely paid.

**MINT OIL.**—The exports from Japan during January of the past three years were as follows:

	1916	1917	1918
Kin ...	37,807	8,511	5,802
Yen ...	92,949	19,263	12,767

The spot price is 3s. 10½d. to 4s., and to arrive 3s. 9d. c.i.f. is quoted.

**PARAFORMALDEHYDE** is extremely scarce and dear on spot, but a limited quantity of powder could probably be had at about 5s. per lb.

**PEPPERMINT OIL.**—There is only a limited quantity of finest American offering at 21s. net from the consignment recently landed.

**PHENACETIN** is unchanged at from 27s. 6d. to 28s. per lb. Over 100 cases have arrived from U.S.A. this week.

**PHENAZONE.**—Stocks are gradually being depleted, and few fresh arrivals from France and Switzerland are taking their place, so that 50s. per lb. is obtainable.

**PHENOLPHTHALEIN** has been in improved demand, and is worth about 50s. on the spot, forward offering at rather below this figure.

**PIMENTO OIL.**—Sales are reported at 21s. 6d. per lb.

**PLATINUM.**—While the price here remains nominal at 400s. per oz., American refiners quote \$108 for their ingots, and it is understood that the United States Government have fixed a price of \$105 for the platinum-content in crude metal reaching the country from outside sources.

**QUININE.**—A large quantity of Java sulphate has arrived, and as this has been distributed throughout the trade the situation has been relieved for the time being, and a further large shipment is advised. Fair spot value is 3s. 6d. per oz., less 5 per cent.

**SACCHARIN** is a very irregular market, and quotations are difficult to define as stocks are in so many hands, and, as much depends on the buyer, prices are a matter of individual negotiation. Undoubtedly a certain amount of profiteering is taking place on pre-Budget stocks. There is, however, a good demand for spot stuff, and up to 250s. per lb. in bond has been paid for 550 pure. On duty-paid terms others have sold at prices varying from 340s. up to 380s., and to arrive (ship declared) at from 315s. to 330s. Imports show a tendency to fall off, but at the same time buyers are acting cautiously.

**SALICYLATES** remain dull and unchanged, as the usual seasonable demand for salicylic acid has not yet set in; at from 4s. 9d. to 5s. per lb. it would appear as if prices had reached their lowest. Sodium-salicylate powder is offered at 6s. 9d. on spot, and forward contracts are offered at 6s. 3d. to 6s. 9d.

**SALOL** remains firm at 10s. per lb., and when the usual demand comes along an improvement on the present reasonable price is looked for.

**SARSAPARILLA.**—Arrivals of about 45 bales Lima and native Jamaica have taken place, and will probably be offered in auction next week.

**SENEGA** on the spot is offered at from 7s. to 7s. 3d. per lb., and to arrive a cable quotes 6s. 6d. c.i.f.

**SHELLAC** is nominal at 375s. for usual standard TN Orange quality, and AC Garnet is 420s. Pending a settlement of the May "futures," as ordered by the Government, market remains unsettled.

**SODA ACETATE** is offered at the lower rate of 122½ per ton for small crystals on the spot.

**SODA PHOSPHATE** is much dearer owing to the increased cost of raw material, and many makers are fully sold.

**SULPHONAL** is firm at 82s. 6d. on spot.

**TANNIC ACID.**—Some holders are asking higher prices for *levis*, but a limited quantity could be obtainable at 11s. per lb.

**TARTARIC ACID** is a firmer market at 3s. 6½d. on the spot.

**TONKA-BEANS** have lately met a quiet, steady sale, including good black Paras at prices not reported. Frosted Surinams are offered at 3s. 3d. to 3s. 6d., and good Angosturas at 7s. 6d. to 7s. 9d. on the spot.

**TURMERIC** is dearer, with sellers of fair Madras finger at 90s., and Cochin split bulbs at 55s. per cwt. on the spot.

**TURPENTINE** is lower at 120s. per cwt., with sales threat to licensee holders.

**VANILLIN**, on the present basis of raw material, should be worth 70s., but there is a certain amount of competition among dealers, and rather less has to be accepted.

**WAX, VEGETABLE.**—Japanese is firm at 135s. on the spot, and at 125s. c.i.f. for May-July shipment.

**ZINC OXIDE.**—Importations are restricted and the market is as stringent as ever, although prices are very wide and chiefly nominal in the absence of regular business. Zinc dust remains very scarce, while the limited supplies available are quickly absorbed.

### Dutch Embargo on Exports.

The embargo on exports from the Dutch East Indies of quinine, quinine salts, and cinchona-bark from Java is confirmed by the Washington correspondent of the Associated Press, who adds that Dutch shipping from the Dutch East Indies to British and American ports has been absolutely stopped by the Dutch steamship companies. Some of their officials on being interviewed by Reuter's correspondent declared that they regard the seizure of Dutch steamers at Singapore, in India, at Hong-Kong, and in Australia a violation of the agreement made in February last with the Indian Government by which a non-seizure guarantee was given as regards the whole fleet of the Rotterdam-Lloyd and the Nederland and Pakevaart Companies in exchange for Dutch tonnage supplied to India at low rates.

### Sulphate of Ammonia.

The following letter has been issued to makers of sulphate of ammonia by the Sulphate of Ammonia Association, 84 Horseferry Road, S.W. 1 (Mr. D. Milne Watson, Chairman), in regard to home prices for the season 1918-19:

Referring to our circular letter of April 11, we are now permitted to state the terms of the resolution which was carried with one dissentient at the meeting on April 10 at these offices, at which makers representing an annual production of about 243,000 tons of sulphate of ammonia were present:

"That this meeting of makers of sulphate of ammonia authorises the Makers' Sub-Committee of the Sulphate of



Ammonia Distribution Committee to accept on their behalf the offer of the Food Production Department and the Ministry of Munitions in regard to the price to be paid to makers for the season June 1, 1918, to May 31, 1919—namely, to be the equivalent of 17*l.* 7*s.* 6*d.* per ton, basis 24½ per cent., in 2-cwt. single bags, free on rails at works, plus any rise on the present prices of acid, on the basis of 11*l.* extra on sulphate for every 1*s.* extra on acid, and plus any rise in the price of bags over 1*s.* 3*d.* each, the makers to take the responsibility for all other rises in the cost of production which may occur before May 31, 1919. These prices to apply to sales for home munitions and home agriculture alike."

The Chairman pointed out that this price represented an advance of 2*l.* 7*s.* 6*d.* per ton on the average agricultural price for the present season, but that it was open to any maker who felt that 17*l.* 7*s.* 6*d.* per ton did not leave him a sufficient margin to enable him to continue producing, to go before the Woodhouse Commission, and prefer a claim for compensation. With reference to the price to be paid by consumers, the War Cabinet has decided that there is to be no alteration for next season, and the average price to the farmer will therefore remain at 16*l.* per ton delivered, basis 24½ per cent. The Order fixing the price will be published this week. This decision will render it necessary for the Government Departments concerned to make good to manufacturers the difference in price on all agricultural deliveries made in accordance with the new Order. We are now conferring with the Ministry of Munitions regarding the manner in which the differences are to be adjusted, and a further letter will be addressed to you as soon as possible by the Ministry of Munitions setting out the arrangements made. You will also shortly receive a letter from the Food Production Department explaining fully the machinery which it is proposed to set up in order to carry out the provisions of the Order governing the distribution of sulphate of ammonia. We venture to request you to await the letters from the two Departments before asking for explanations regarding the terms of the Order, which are necessarily somewhat complicated, and before making any sales for delivery after May 31, 1918.

### Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the Ports of London and Liverpool. Particulars of imports of oils, oilseeds and nuts, fats, gums, etc., are not now published:

To London (April 20 to 26).		To Liverpool (April 20 to 27).	
Antimony reg., 48 tons		Algo, 50 chts.; sun-	
Argol, 32 cks.		mach ext., 16 cks.	
Bronze powder, 31 cs.		Gelatin, 970 <i>l.</i>	
Canary-seed, 177 bgs.		Lithopone, 252 brls.	
Chemical products, un-		Perfumery, unrated	
rated, 5 cs.; photo.		(mostly raw materi-	
chemicals, 120 <i>l.</i>		als), 695 <i>l.</i> ; toilet-	
Arsenic, 25 cwt.		powder, 46 <i>l.</i>	
Calc. glycerophosph.,		Plumbago, 36 cks.	
6 cs.		Soap, toilet, 51 <i>l.</i>	
Chloral hydrate, 1		Starches (cwt.): farina,	
cs. 15 brls.		980; mandioca, 400;	
Citric acid, 49 cks.		potato, 4,413; wheat,	
64 pkgs.		180	
Cream of tartar, 63		Talc, 255 <i>l.</i> ; French	
cks.		chalk, 100 <i>l.</i>	
Hydroquinone, 1 kg.		Tripoli powder, 140 <i>l.</i>	
Phenazone, 10 cs.		Wax, not described,	
Potash iodide, 10 cs.		337 bgs. 83cs. 2 pkgs.	
Pyrogallie acid, 20		Wax, paraffin, 8,007	
brls.		cwt.; scale, 2,458	
Saltpetre, 8,239 cwt.		cwt.	
Soda hyposulph., 38			
tons			
Sulphur, 5,000 cwt.			
Tartaric acid, 63			
pkgs. 40 cks.			
Terpineol, 3 drms.			
Thorium nit., 3,549 <i>l.</i>			
Verdigris, 4 cs.			
Drugs, unrated, 337 <i>l.</i>			
drugs and herbs,			
216 <i>l.</i>			
Anise, star, 25 cs.			
Balsam peru, 10 cs.			
Camphor, 13 cs.			
Eucalyptus oil, 273			
cs.			
Galls, 720 <i>l.</i>			
Gamboge, 19 cs.			
Insect-flowers, 650 <i>l.</i>			
and 25 brls.			
Manna, 360 <i>l.</i>			
Sarsaparilla, 10 brls.			
Valerian-root, 10 brls.			
Dyestuffs, unrated, 316			
cks. 58 pkgs.; in-			



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

### Cream-of-Tartar Standard.

SIR,—We have read the letter appearing in the *C. & D.* April 27, p. 51, from Mr. J. Horner Haslett respecting cream of tartar. His experiences, shared by many others, make it quite plain why an increase in the amount of lead to be allowed in cream of tartar is suggested. The letter fully demonstrates that Continental brands of cream of tartar cannot be relied upon to conform to the British standard. Mr. Haslett assumes that in getting three different results of samples drawn from one parcel, with regard to the lead contained, the analysts were at fault, whereas we know from analyses of foreign brands that an excess of lead often appears in patches, and that very often a sample does not truly represent the bulk. Mr. Haslett appeals for a standard test for lead; such a standard already exists, and can be found in the British Pharmacopœia, 1914, p. 497. This method gives very consistent results, but it must be pointed out that all the glass vessels used in the determination must themselves be free from lead. It is not an unusual experience to find that Nessler glasses used in the test will, if allowed to stand for a short time in contact with the solution to be tested, give higher results, brought about by the lead extracted from the glass. We have our Nessler glasses specially made. We think, however, it would be an advantage if analysts stated whether the B.P. method was used or not.

We remain, Sir, your obedient servants.

For JOHN BENNET LAWES & CO., LTD.,

A. G. PAGE, Secretary.

SIR,—As manufacturers of cream of tartar we are very much surprised that a suggestion is being seriously put forward to alter the standard for cream of tartar. We, like the other English manufacturers, find no difficulty in keeping well within the present limit of 20 parts, and we are therefore led to believe that such a proposal can only be put forward with a view to helping foreign importations of this article, which are often found to contain more lead than is allowed by the B.P. We think that the letter from J. B. Lawes & Co., Ltd., is very much to the point, and we hope that before any alteration is considered the B.P. authorities will follow the usual and proper course and consult the English makers of the article in question, who know what can be done in the matter of purity.

Yours faithfully,

THE PHOENIX CHEMICAL CO., LTD.

Church, Accrington.

E. J. ALDRICK, Director.

SIR,—I fully agree with Mr. Haslett that a proper fixed standard of analysis should be laid down, so that analysts might conduct their investigations on a standard basis. Personally, I know that Justices have great difficulty in adjudicating on analysts' certificates; they differ so much on the same sample. In the matter of cream of tartar it appears they are as difficult to deal with as handwriting experts.

Yours truly,

Pomeroy.

J. F. GRIMES, J.P.

### The Title "Chemist."

SIR,—Registered chemists would know what is behind the cryptic statement of the President of the Institute of Chemistry, reported in the *C. & D.*, April 27, p. 40, to the effect that the Council had learned from the President of the Pharmaceutical Society what are the obstacles to be overcome with regard to the legal definition of the term "chemist." Sir William A. Tilden again returns to the line of remark which has already caused keen resentment by registered chemists. He patronisingly condescends to say:

That some pharmacists are also chemists was not to be denied, but their main business is the dispensing of medicines and the selling of poisons.

Surely a body of men who are the only class in the community who can claim to be at once *de facto* and *de jure* entitled to use the title "chemist" must appreciate the wonderful condescension implied in an admission that some of them are really, after all, chemists. Sir William Tilden requires again to be told that the business of a chemist and druggist has never been limited in the way he suggests, and is very much wider in its scope than he seems



to know. The business of a registered chemist includes, and always has included, the retail vending of substances used for scientific, technical, and domestic purposes, and this constitutes an integral and, in a very large number of cases, an important and extensive part of the business of a registered chemist. It must also be remembered that, in addition to a special knowledge of pharmaceutical chemistry, every registered chemist is certified by examination to possess a competent practical knowledge of general chemistry. On the ground of his chemical knowledge alone, therefore, apart altogether from the kind of business in which he may be engaged, he is entitled to rank as a "chemist" in the ordinary acceptance of that word quite as much as many thousands who professionally use the term.

I am, etc.,

SCOTTISH REGISTERED CHEMIST. (30/18.)

#### The Council Election.

SIR,—May I ask my friends throughout the country, in filling up their voting-papers, to reserve one vote at least for Mr. C. W. Ridyard, the nominee of the Derbyshire County Association? Having been concerned with Mr. Ridyard in the formation of that Association, and knowing the difficulties connected therewith, I am able to appreciate as few can the grit and courage he showed in tackling the work, and the energy he threw into it. The fact that to-day we have in Derbyshire a live Pharmaceutical Association is due almost entirely to his initiative and organising skill. In addition to this, he has been a member of the Derbyshire Insurance Committee from its formation, and has served for some time on the Local Associations Executive, and in each capacity has rendered conspicuous service to his fellow-craftsmen, while as a retail chemist he is perfectly familiar with all the difficulties and worries of the calling. I know no man who has done better work of the kind needed on the Council, or who is more worthy of a place on that body, and for these reasons I hope he will secure election.

Yours faithfully,

R. WRIGHT.

Buxton.

SIR,—I notice that Messrs. Keall and Melhuish are claiming that they are the "official" candidates for London County, and though this may be technically correct, as being chosen by a split vote of the Executive which calls itself London County Pharmaceutical Association, it is a fact that up to date only one District Association out of six has confirmed this decision, while Mr. Kirkpatrick has been adopted by the South-Western, Northern, Eastern, Ealing, West Ham and East Ham, Essex County, and Middlesex County. The South-Eastern and North-Eastern not yet having had a meeting, only the Western so far has officially adopted Messrs. Keall and Melhuish, so that in fairness to London and Greater London it can be truthfully said that Mr. Kirkpatrick is the chosen candidate of the majority of the constituent Associations of London and Greater London, and is officially their candidate. We on the outer fringe of the Metropolitan area feel that London County has quite enough representation on the Council now, and that Greater London has a just claim for recognition, which it has failed to receive since Mr. Goode retired.—Yours faithfully,

ALEX. CATTO,

Hon. Secretary West Ham, East Ham, and Metropolitan Essex Association of Pharmacists.

SIR,—It is an interesting and noteworthy fact that first in the list of candidates at the approaching election of members of the Council of the Pharmaceutical Society appears the name of Miss Buchanan, a woman of proved business capacity with the highest qualifications as a pharmacist and great experience in matters of education. We ought to return her at the head of the poll if possible, not only because of her own worthiness, but because she is standing as the representative of womanhood in British pharmacy; and it would, in my opinion, be a particularly gracious thing to endeavour to repay some of our indebtedness to the womenfolk who have responded so nobly to the country's call in time of need by placing one of the best of them in one of our seats of honour. I therefore ask all electors who are desirous of getting the greatest possible return for their votes to make a point of including Miss Buchanan's name in the list of those whom they decide to support at this election.

Yours faithfully,

A. R. KEITH.

Poplar, London, E.

SIR,—I have been studying the views of the candidates for the coming Pharmaceutical Council election, and am struck by the vague nature of most of their utterances. The critical test is not talk nor the record of the Council itself; it is, "What have you yourself done to make pharmacy more worth while?" Few of them could answer that save in vague generalities, and those will butter no parsnips. Six have come out on the side of reform: they are Miss Buchanan and Messrs. Campkin, Guthrie, Kirkpatrick,

Ridyard, and Wolff. The remainder have no answer to definite questions, or are mere spasms of admiration of what might be, but never is, done.

PHARMACEUTICAL REFORMER. (30/18.)

#### Euthymol Tooth-paste.

SIR,—A note in the *C. & D.*, April 27, p. 35, contains the information that euthymol tooth-paste is sold at Y.M.C.A. huts to soldiers for 7½d. per tube. In justice to the Y.M.C.A., for whom I have done voluntary work in France both at Havre and Marseilles, and subscriptions to whose funds may be affected by such statements, notwithstanding the splendid work the Association is doing among our men, I should like to say that the euthymol tooth-paste sold by the Y.M.C.A. to the British Forces at home and abroad is specially put up by Parke, Davis & Co., and called "Service" euthymol tooth-paste. It is a smaller size tube and a different "get up" from the ordinary 1s. tube of euthymol tooth-paste, and the fixed price for it is 7½d. per tube. I do not know why the firm should have made this distinction, and why they do not put that size on the market to meet such cases as are mentioned by your correspondent. So far as I know no concession is given to the Y.M.C.A. or the B.E.F. canteens. There is sure to be a good deal of question when our men return, and they are asked to pay 1s. per tube for euthymol which they have purchased in France at 75 centimes (about 6½d. in our money), and the reflection will fall, not upon the proprietors, but, as usual, on the retailer.

Yours faithfully,

W. H. DELVE.

Paignton.

#### War Emergency Fund.

SIR,—I am pleased to see your valuable suggestion that a War Emergency Fund should be promoted for assisting qualified chemists who have been called up and those who are likely to be called up in the near future. I suggest that the matter be taken up without delay by all local Associations for discussion, and also venture to say that it would prove to be one of the best moves in the interests of pharmacy yet undertaken.

Yours truly,

E. H. F. WILLIAMS.

#### Pharmacists and Volunteers.

SIR,—Referring to Lieutenant Skues's letter in the *C. & D.*, April 27, p. 51, I should like to add a few remarks which may be of interest to intending recruits. First each recruit is required to do a minimum of fourteen drills per month (when efficient, thirty per quarter) of one hour each, and the times of our parades are as follows: Wednesdays and Thursdays, 3-5; Sundays, 10-1, with a field-day at Richmond the third Sunday every month, this being an enjoyable (if strenuous) and much-looked-forward-to day's outing. Drills may also be put in at any other times during the week with "A," "B," and "C" Companies. The training, which is thorough, consists of squad and infantry drill, field-work, bayonet-fighting, and musketry; each subject is under a qualified instructor, who in "D" Company is a pharmacist, and every care is taken not to overtax the strength or capabilities of the men. We have recently suffered a heavy loss, due to our O.C., Captain Atkins (the founder of the Company), leaving us to take a commission in the Regular Army, but are fortunate in having such a keen and capable officer as Lieutenant Skues to fill his place. He is one of the few remaining members left who used to turn out every Sunday, in all weathers, and drill and dig in the fields behind Wandsworth Prison in the early days; and, in taking over the command of the Company, he has the loyalty and good wishes of every N.C.O. and man now serving under him. I hope every pharmacist of military age will join us now at once, and not wait till the Tribunals send them. Let them come right along and roll the numbers up to 250. We who joined in 1915 have no regrets for the step we took, but are the richer for the friendships (everlasting, I hope) made, the gain to our health, and last, but not least, the thought that we have tried to do our duty in a small way to our country in making ourselves fit and ready in case we should be needed for home defence. That in itself should be enough incentive for every man to come and help us carry on the good work now.

F. G. WELLS.

Sergeant-Major, "D" Company, United Arts.

#### The Public Pharmacists' Association.

SIR,—We know that Association work is thankless. Still, it is surprising to see in your last issue a charge of inaction brought against the Public Pharmacists' Association by Mr. F. E. Trayner, a dispenser in the Metropolitan area of the Poor-law service, because it is known that the Local Government Board, in reply to representations made by the Public Pharmacists' Association, has recently made two very small, but welcome, concessions to dispensers in this very area of the Poor-law service. The Public Pharmacists' Association has done, and will do, very useful work for us



all. Why do apothecaries' assistants still waste the time in which they might qualify in discussing these phantom by-laws? It is obvious that, in order to comply with the by-laws, if ever formulated, the work necessary for qualification would have to be done just the same, so why not do it now? If we can encourage apothecaries' assistants to improve their position by qualifying as pharmacists, this correspondence will have served one useful purpose.

Yours faithfully,  
PROGRESS. (67/66.)

## Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

### Quassia-cups:

Mr. F. H. Frost, *Hornsey*, referring to the note in the *C. & D.*, April 27, p. 34, as to quassia-cups being unobtainable in Birmingham, states that since the note appeared he was turning over some old stock and came across three of these old cups, which must have been lying in quiet repose for very many years. Mr. Frost has given the cups a prominent place in the pharmacy, and he has no doubt that many inquiries will be made as to their use.

### Giving Copies of Prescriptions.

*Vigilant* (52/38) asks for opinions as to the advisability of giving copies of the following prescription, which a customer frequently desires for distribution to friends:

Liq. morph. ...	...	...	...	m℥.
Ae. hydrocyan. dil.	...	...	...	mij.
Syr. pruni virg.	...	...	...	m℥.
Tinet. chlorof. co.	...	...	...	m℥.
Aq. ad	...	...	...	℥ss.

Ft. haust. p.r.n. Mitte 3viij.

### Jay Macksims

(As he Writes them).

1. The Trade Union taint, as Hugo Wolff said at Sheffield, is England's weak spot; worse even than poor education and party politics.
2. We have 30,000 girls in our trade, all from Trade Union homes; but they are far better shopkeepers than men ever were.
3. All they need is proper teaching, suitable exams. in easy grades, and yet our palsied Pharmaceutical Society seems oblivious of their very existence.
4. At Bradford Mr. Currie tells us that the new Education Act will bring youths in plenty to us—which we would all like to believe, but we know is mere election dope.
5. The better-class boy left us twelve years ago; the working-class boy for six years has refused to be a shopkeeper; and even errand-boys in Manchester have to be "bribed" with a watch (*C. & D.* report).
6. Girls only are left; but their business life is only ten years at most, whereas a man's is forty to fifty years.
7. If we are to get efficiency from girls we must have a system of teaching them all quickly, and thereby get the best of them as managers and future owners of shops.
8. Heavy development, building, and engineering will absorb every boy for twenty years; no girls can do that work, and very few boys will come to us.
9. I expect Boots, Ltd., will have to show the way. One qualified man in an office in Nottingham could teach 500 girls in a year by post at his branches; and 100 of that lot would be well worth qualifying.
10. I hope Boots will do it; they are the "residuary legatees" of the drug-trade anyhow. Most chemists seem bent upon hari-kiri.

## Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

X. Y. Z. (56/6).—MEAT CURES.—These contain meat extract, gelatin, and salt. The last-named, which is present usually in a large proportion, acts as a preservative.

*Ink* (60/73).—GALACTAGOGUES.—Several drugs increase the secretion of the mammary gland—e.g., jaborandi, potassium chlorate, and decoction of castor-oil leaves. Laetogol, an extract prepared from cottonseed, is also administered as a galactagogue in doses of a teaspoonful three times a day.

*Asticot* (49/59).—You will find the chapters on perfumes and toilet-articles in "Pharmaceutical Formulas" suit your purpose, as those are especially written for chemists.

*Explosives* (40/69).—(1) BOOKS ON EXPLOSIVES.—Marshall's "Explosives" (2 vols., 3l. 3s., Churchill), also articles in Thorpe's "Dictionary of Applied Chemistry." (2) BOOKS ON RADIUM THERAPY.—Knox's "Radiography and Radio-therapeutics" (Vol. II., Radio-therapeutics, 30s., A. & C. Black, Ltd.); Tousey's "Medical Electricity, Röntgen Rays and Radium" (W. B. Saunders Co., 35s.).

*Gentian* (44/38).—WOOL-BALLS IN LAMBS.—See *C. & D.*, March 17, 1917, p. 52, and March 8, 1913, p. 123.

H. M. T. (47/7).—We are not aware that the process for the food you mention has ever been published.

F. C. (58/45).—SANATOGEN.—An abstract of the sanatozen patent was published in the *C. & D.*, October 21, 1916, p. 46.

*Cracow* (87/5).—THE NAME ASPIRIN is not entirely a fancy one, as you appear to suggest. The essential oil of *Spiraea Ulmaria* consists of the methyl ester of salicylic acid, which acid was in consequence known as acidum spiricum. It is not difficult to see the way the word "aspirin" was invented from syllables contained in the German name for acetylsalicylic acid—viz., acetylspiraeasäure.

J. G. (60/27).—BOROL.—There are at least two distinct preparations which go under this name. One of these is stated to consist of a fused mixture of borio acid and sodium bisulphate, and to be employed as an antiseptic. Externally it is used in 1 to 2 per cent. solutions in diphtheria, gonorrhoea, etc., and internally in infectious diseases in doses of 5 to 10 gr. The other borol, used as an antiseptic gargle, is represented by a mixture of borax, sodium bicarbonate, sodium benzoate, glycerin, eucalyptol, thymol, menthol, and pinus pumilio oil.

H. V. (237/74).—BOOK FOR MARRIED PEOPLE.—A recently published book by Dr. Marie Stopes entitled "Married Love" (Fifield, 5s.) is, we think, the kind of book you require.

*Crawshaw*. (41/40).—FEVER-MIXTURE FOR CHILDREN.—Dilute nitric acid is not usually credited with febrifuge properties; it is used internally as a tonic and alternative. We frequently, however, have submitted to us the formula you send, which is supposed to represent a proprietary article. The following recipes are useful febrifuges for general sale:

I.		II.	
Liq. ammon. acet.	m℥.	Sp. ætheris nitrosi	℥iiss.
Potass. nitrat.	gr. viij.	Liq. ammon. acetat.,	
Vin. ipecac.	m℥.	1-7	...
Syr. tolu.	...	Syr. eroci	...
Aquam ad	...	Liq. magnes. carb.	...
		Aq. anethi ad	...
			...

Dose: From a teaspoonful to a tablespoonful, according to the age of the child.

Dose: From half a teaspoonful for a child of three to six months to two teaspoonfuls for a child of three to seven years.

F. V. (64/50).—BOOK OF FORMULE FOR TOILET-PREPARATIONS.—The best book for chemists' use is "Pharmaceutical Formulas," the chapters on toilet-preparations covering the range of modern pharmaceutical practice.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," May 15, 1868.

### Secret Writing.

The evidence of Dr. Odling at the trial of the Fenian prisoners brought to light a novel and costly method of secret writing. He deposed that he examined the contents of a glass bulb handed to him by the inspector. It was entirely closed by being blown round. He broke the bulb and ascertained that it contained chloride of gold. If this was dissolved in water and used as ink, the writing would be invisible, but it could be reproduced by several processes, and copperas would bring it out immediately. The characters were not absolutely invisible if examined carefully, but they could not be read, although it would be seen that the surface of the paper had been disturbed, and under ordinary circumstances the writing would remain unreadable for several hours. The witness then proved that the substance handed to him by the warden of the House of Detention consisted of sulphate of iron or green copperas.



# BISHOP'S NATURAL FRUIT SALINE

**T**HIS preparation, our latest Saline, made by our Special Process without SUGAR or SACCHARINE, is an unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught, which acts as a mild but very thorough aperient, antacid and liver stimulant.

**BISHOP'S NATURAL FRUIT SALINE** is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line. It keeps perfectly in all climates.

*The Wholesale Price is 15/- per doz. Discount 10 %, and carriage paid on £5 lots.*

*The P.A.T.A. Retail Price is 1/9 per bottle.*

*This ensures a profit of 7½d. a bottle to the Chemist.*

**Sold in P. S. Bottles with striking Litho. Cover.**

PREPARED ONLY BY

## ALFRED BISHOP, Limited

48 SPELMAN STREET, LONDON, E. 1.

Government regulations do not prevent NEWMAN'S FORTREVIVER being sold and consumed at all hours.

# FORTREVIVER

## FORTIFIES and REVIVES

A LIQUEUR TONIC.

FRUIT FOOD double highly concentrated.



"For Palates of Refinement."

### NEWMAN'S FORTREVIVER

A LIQUEUR TONIC

Entirely British Made and Non-Alcoholic

NEWMAN'S FORTREVIVER is composed of the finest concentrated fruit juices, and will be found to be a most health-giving tonic. It contains wonderful Fortifying and Reviving powers, and is strongly recommended for all those wishing to retain health and strength.

*Wholesale price to the Trade only.*

40/- per case, large size bottles.

23/- " smaller "

*Minimum retail price.*

4/6 per large size bottle.

2/6 " smaller "

For full particulars apply to H. & C. NEWMAN, London Office, 41/42 Upper Rathbone Place, W. 1.



# HUBBUCK'S PURE OXIDE OF ZINC.

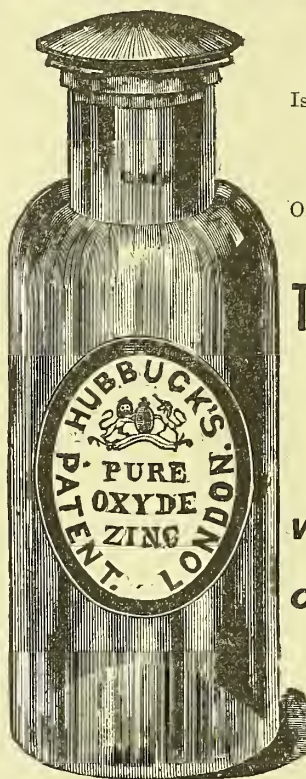
Sold by the following Wholesale Druggists  
in Boxes of 7 lbs. and 14 lbs. stamped by  
the Manufacturers; also in 1-lb. Boxes and  
1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)  
Ayrton, Saunders & Co.  
(Lim.)  
Baiss Bros. & Company  
Bell, Jno., & Co. [(Lim.)  
Bleasdale (Lim.) [(Lim.)  
Boots' Pure Drug Co.  
British Drug Houses (Lim.)  
Burgoyne, Burdidge & Co.  
Butler & Crispe  
Clay, Dod & Co.  
Cockburn & Co. (Lim.)  
Corbyn, Stacey & Co.  
Dakin Brothers. [(Lim.)  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Evans Sons Lescher &  
Webb (Lim.)  
Ferris & Co.  
Gale & Co.  
Glasgow Apothecaries' Co.  
Glasgow New Apothe-  
caries' Co.  
Goodall, Backhouse & Co.  
Harker, Stagg & Morgan  
(Lim.)  
Harkness, Beaumont &  
Co.  
Hatrik, W. & R., & Co.

Hirst, Brooke & Hirst.  
Hodkinson, Prestons &  
King.  
Hodkinson, Clarke &  
Ward.  
Horner & Sons.  
Huskisson, H. O., & Co.  
Imman's Stores (of Edin-  
boro').  
Ismay, John, & Sons  
Lothhouse & Saltmer  
(Lim.)  
Oldfield, Pattinson & Co.  
Pinkerton, Gibson & Co.  
Raines, Clark & Co.  
Raines & Co.  
Rankin & Borland.  
Silversides, R. B. G.  
Southall Bros. & Barclay.  
Sumner, R. & Co.  
Taylor, James.  
Thompson, John (Lim.)  
Willows, Francis, Butler  
& Thompson (Lim.)  
Woolley, Jas., Sons & Co.  
(Lim.)  
Wright, Layman & Um-  
ney (Lim.)  
Wyleys (Lim.)

Barry, E. J., New York.  
Carter, Carter & Kilham,  
Boston.  
Finlay & Branswig, New  
Orleans.  
Langley & Michaels, San  
Francisco.  
Lehn & Fink, New  
York.

McKesson & Robbins, New  
York.  
Muth Brothers & Co.,  
Baltimore.  
Roller & Shoemaker,  
Philadelphia.  
Schieffelin, W. H., & Co.,  
New York.  
Shoemaker, R., & Co.,  
Philadelphia.



## HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted  
to contain upwards of

**99 PER CENT.**

Of Pure Oxide; in fact the impurities are  
not traceable.

**THOS. HUBBUCK & SON,**

(Established 1765) **LTD.**

**24 LIME STREET,  
LONDON, E.C.3.**

Manufacturers of—

**White Lead, White Zinc,  
Paints, Oils,  
Colours, Varnishes, &c.**

AUSTRALIAN OFFICE—

**34 QUEEN STREET, MELBOURNE.**

The Manufacturers supply their Pure  
Oxide Wholesale only, in quantities of  
not less than 2 cwt.

# QUININE

**CINCHONIDINE  
CINCHONINE  
QUINIDINE**

# AND SALTS

**SUGAR-COATED QUININE TABLETS & PILLS.  
GELATINE-COATED OVAL PILLS**

## BANDOENG QUININE FACTORIES

**BANDOENG-JAVA.**

Telegrams—"Kininefabriek Bandoeng."

**AMSTERDAM—Keizersgracht 173**

Telegrams—"Schalkwyk Amsterdam."

SOLE AGENTS FOR THE UNITED KINGDOM—

**C. M. & C. WOODHOUSE, 30 Mincing Lane, London, E.C. 3.**

Telegrams—"Palmiste, Telew, London."

SAMPLES AND PRICES ON APPLICATION.



A single postal delivery last week brought  
us orders for

**875** DOZ. **25**S  
ASPIRIN TABLETS.

This is a little illustration showing how  
the Medical Profession and the Public  
appreciate the Therapeutic Efficiency  
of

HOWARDS'  
ASPIRIN  
TABLETS.

Elegant Counter Display-box for Bottles  
with or without Cartons.

HOWARDS & SONS, LTD.  
ILFORD.



Telegrams: "AGENTICUM, GRACE, LONDON."

Telephone: AVENUE 1098 (2 lines).

**A. JOHNSON & CO. (LONDON) LTD.****3 Gracechurch St., LONDON, E.C. 3**

Branch Offices at NEW YORK, PARIS and STOCKHOLM.

**OFFER SPOT AND FORWARD DELIVERY—**

Acid Benzoic  
 „ Citric  
 „ Pyrogallie  
 „ Salicylic  
 „ Tannic  
 „ Tartaric  
 Barbitone  
 Bromides  
 Caffeine  
 Creosote Carbonate

**PHENAZONE**  
 AND  
**PYRAMIDON**

Guaiacol Carbonate  
 „ Crystals  
 „ Liquid  
 Hydrokinone  
 Paraldehyde  
 Phenacetin  
 Pot. Sulpho-guaiacolate  
 Resorcin  
 Salol  
 Vanillin 100%

*Inquiries Solicited.***WHOLESALE & EXPORT.**

# Increase in Prices

OF

# "Milk of Magnesia"

REGISTERED TRADE MARK.

Owing to increased cost of Freightage and Material, on and after July 1 the prices of "Milk of Magnesia" will be raised as follows:

2/3 size to **22/-** per doz. | 1/- size to **11/-** per doz.  
 1/2-gallons to **9/-** each. (Subject to usual quantity discounts.)

The PROTECTED PRICES will be raised to 2/6 & 1/3 per bot. respectively.

**The Charles H. Phillips Chemical Co.**

14 HENRIETTA ST., COVENT GARDEN, LONDON, W.C. 2.

Telephone No. 275 Gerrard.



"Roche"

"Roche"

## "ROCHE" PRODUCTS

---

ALKALOIDS, FINE CHEMICALS and PROPRIETARIES.

Acid Acetyl Salicylic  
Aconitine  
Arecoline  
Atropine  
Brucine  
COCAINE  
Colchicine  
Coumarine

Eserine  
Homatropine  
Pilocarpine  
SILVER PROTEINATE  
SILVER NUCLEINATE  
TANNIN ALBUMINATE  
Theobromine,  
etc., etc.

For spot and forward delivery.

---

AIROL "ROCHE," DIGALEN IODOSTARIN "ROCHE,"

OMNOPON "ROCHE" SEDOBROL "ROCHE," THIGENOL "ROCHE," THIICOL "ROCHE."

---

THE HOFFMANN-LA ROCHE CHEMICAL WORKS, LTD.,  
7-8 IDOL LANE, LONDON, E.C. 3.

WITH HEADQUARTERS (F. HOFFMANN-LA ROCHE & Co.),  
IN BASLE, SWITZERLAND.

ESTABLISHED IN 1896.

"Roche"

"Roche"



## L. B. HOLLIDAY &amp; Co., HUDDERSFIELD, ENG.



ARE MAKING AND CAN GIVE PROMPT DELIVERIES OF:—

SALICYLIC ACID, B.P.

ACETYL-SALICYLIC ACID, B.P.

(ASPIRIN)

Finest Quality  
Best Appearance  
Lowest Price

TARTRAZINE

AURAMINE II.

METHYLENE BLUE, Z.F. CONC.

METHYLENE BLUE (Medicinal Quality).

FOR

FULL PARTICULARS APPLY

SALES DEPARTMENT.

L. B. HOLLIDAY & Co.,  
HUDDERSFIELD, ENGLAND.TELEPHONE: 334 HUDDERSFIELD (4 LINES).  
TELEGRAMS: "DYEWARES, HUDDERSFIELD."

TELEPHONE—HOLBORN 4894

**S. TOLKOWSKY,**

HALTON HOUSE, 20 HOLBORN, LONDON, E.C. 1.

London Representative of I. L. GOLDBERG, Petrograd, Wilna, Moscow, Odessa.

The exclusive  
exporter of**SANTONINE**from Russia to  
the whole world.

Inquiries solicited also for

**RUSSIAN CRUDE DRUGS**Wormseed  
(Semen Contra)Elderflower  
(Flores Sambuci)

Lycopodium

Aniseed

Ergot of Rye

Liquorice Root

Calamus Root

Boletus Cervinus

Gum Galbanum

„ Tragacanth

Henbane Leaves

Frangula Bark

Cantharides

Blood Albumine

Anise Oil

Coriander Oil

Soap Root

STOCKS IN LONDON.



**ÉTABLISSEMENTS CHATELAIN,****2 & 2 bis RUE DE VALENCIENNES, PARIS.***Sole Manufacturers of***JUBOL****RE-EDUCATION OF THE  
INTESTINE.**Constipation, Enteritis, Hæmorrhoids,  
Indigestion, Skin Blemishes, &c.

Price 5/- per box.

**GLOBÉOL****POWERFUL BLOOD TONIC.**Anæmia, Nervous Exhaustion, General  
Debility, Tuberculosis Convalescence,  
etc.

Price 5/- per bottle.

**PAGÉOL****POWERFUL URINARY  
ANTISEPTIC.**Cystitis, Prostatitis, Catarrh of the  
Bladder, Renal Tuberculosis, etc., etc.

Price 5/- and 11/- per box.

**JUBOLITOIRES****SCIENTIFIC SUPPOSITORIES**For Hæmorrhoids, Rectitis, Anal Fistula, etc.  
Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

**URODONAL****POWERFUL URIC ACID  
SOLVENT.**Rheumatism, Gout, Arterio-sclerosis,  
Stones, Gravel, Sciatica, Neuralgia and  
all Uric Acid disorders.

Price 5/- and 12/- per bottle.

**VAMIANINE**New Scientific Preparation for Chronic  
Skin Affections, Psoriasis, Eczema,  
Acne, etc.

Price 11/- per bottle.

**SINUBÉRASE****SCIENTIFIC PREPARATION OF  
LACTIC FERMENTS.**Indicated in Intestinal Disorders,  
Dysentery, Diarrhoea, Dyspepsia, Enteritis,  
Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

**FANDORINE**Metrorrhagia, Dysmenorrhœa and Lactation,  
Pains, etc. etc.

Price 5/- and 11/- per bottle.

**FILUDINE****SPECIFIC FOR THE LIVER.**Malaria, Diabetes, Cirrhosis, Sluggish  
Liver, Tuberculosis, etc.

Price 11/- per bottle.

*Heppells***BRITISH AND COLONIAL AGENTS—  
Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.**

Telegrams: "URODONAL LONDON."

Telephone: Regent 192.

AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.

INDIA (SUB-AGENTS): G. ATHERTON &amp; CO., 8 Clive Street, Calcutta.

*Stocked by all Wholesalers.**Now being largely advertised.***SANTROCYL CAPSULES****Boxes of  
24 Capsules****16/-  
per doz.****Boxes of  
36 Capsules****20/-  
per doz.***To be obtained from the principal Druggists' Sundriesmen.***SOLE EXPORT AGENTS: LYNDWOOD & CO., 71 HIGH HOLBORN, LONDON, W.C.1, to whom  
inquiries, orders and applications for exclusive Agencies should be addressed.**



**British Pharmaceuticals**

ACETANILID  
AMYL ACETATE  
SODA SULPHOCARBOLATE  
ZINC SULPHOCARBOLATE

**E. H. BUTLER & SON,** Manufacturing Chemists  
93 Humberstone Gate, LEICESTER.

**Swiss Aniline Colours.**

**J. R. GEIGY, S.A.,**  
Basle - Switzerland

are makers of

ACID REDS, YELLOWS and ORANGES  
METHYLENE BLUES SPIRIT BLUE  
NIGROSINES. TANNIC ACID

Agents for Leicester District:

**E. H. BUTLER & SON, LEICESTER.**

NEW YORK  
CORRESPONDENTS:  
BRASSARD CHEM.  
CO. INC.,  
29 BROADWAY.

**THE FABRA**  
HEAD OFFICE:  
**BRADFORD,**  
46 Vicar Lane.



**COMPANY,**  
LIMITED.  
**LONDON,**  
24 Minories, E. 1.

MANCHESTER:  
LLOYDS BANK BLDGS.,  
KING STREET.  
GLASGOW:  
54 GORDON STREET.

We are pleased to  
offer the services of  
our Technical Staff  
and Laboratories for  
the preparation of  
small quantities of  
rarer fine chemicals,  
active enzymes,  
pepsins, &c.

IMPORTERS & EXPORTERS  
OF ALL CLASSES OF  
FINE & PHARMACEUTICAL  
CHEMICALS, DRUGS,  
ACIDS, etc.

Phenacetin. Aspirin.  
Methyl Salicylate. Acetanilide.  
Soda Sal. Sal. Acid.  
Hexamine. Phthaleins.  
Formic Acid. Acetic Acid.  
Eto. Eto. Eto.  
And all heavy Chemicals.

Our works are open  
to undertake the  
preparation of  
certain intermediate  
products.  
Please send us your  
inquiries.

ADVICE.  
ASSISTANCE.  
QUOTATIONS.

**CAFFEINE**

POT. BROMIDE.  
POT. IODIDE.  
THEOBROMIN SODA SAL.

**HARTLEY FLOREY,**  
45 Great Tower Street, London, E.C. 3.

T.N.: Avenue 3889. Telegrams: "Yerolftrah," Phone, London."

**A. BREZET & CO.**

Proprietor: A. BREZET DE BEAUFORT (French origin).  
Graduated in Chemistry, Paris University.

145 Wool Exchange, London, E.C. 2.

Fine and Heavy Chemicals.  
Synthetic Essences.  
Drugs. Oils. Dyes.

**SPECIAL OFFERS:**

SACCHARINE 550. CHLORAL HYDRATE.  
THYMOL CRYSTALS. METHYL SALICYLATE  
VANILLINE 100%. CUAIALCOL LIQ.  
THEOBROMINE, Pure.

All fine chemicals are offered in large or small  
quantities and packed to the client's specifications.

The Firm makes a speciality of  
chemicals of French manufacture.

The Firm is prepared to undertake any analytical  
work or investigation on behalf of the Profession  
and of the Trade.

**INQUIRIES SOLICITED.**

WE OFFER  
**GOLDEN SEAL**  
AND  
**SENEGA ROOT**

**S. B. PENICK & COMPANY (Incorp.)**  
CRUDE DRUGS,  
254, 256 Front St., NEW YORK.

London Sales Representative—

**J. D. BISHOP,** 87 Borough High Street, S.E. 1.  
Phone: Hop 1060.



**Alliance Drug & Chemical Co. London**

Offices: 34 LEADENHALL STREET.

NOTE.—Only terms, Net Cash with order without discount, or orders accepted through London Merchants or Bankers.

Goods carriage forward; all packages free: Export cases extra.

**A**cid. Citric, cryst., B.P., '85, 7 lbs. in bags @ 3/7 lb.; powder, 1d. lb. extra.  
 " Diethylbarbituric, 1 oz. @ 9/6 oz.  
 " Gallic, pur., P.B., 7 lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.  
 " Hydrobrom. 6 lbs. @ 1/9 lb.

**F**errum Redact., 80%, 1 lb. @ 9/6.  
 Flor. Anth. Exot., 7 lbs. @ 4/2 lb.  
 Fol. Buchu, oval, 7 lbs. @ 5/6 lb.  
 Fol. Sennæ Alex. parv., 28 lbs. @ 1/1 lb.  
 Fol. Sennæ Tinnev., 1 cwt. @ 7/4 lb.; 7 lbs. @ 9/4 lb.; English Ground, 56 lbs. @ 10/4 lb.; 7 lbs. @ 1/- lb.

**I**odoform Pulv. B.P., 7 lbs. @ 20/8 lb.; 1 lb. @ 21/2 lb.  
**I**odum, resub. B.P., 7 lbs. @ 17/6 lb.; 1 lb. @ 18/- lb.

**P**arasinum Durum, B.P., 2 cwt. @ 11d. lb.; 1 cwt. @ 11½d. lb.; 56 lbs. @ 1/- lb.; 7 lbs. @ 1/0½ lb.; Molle Flav., B.P., 3½ cwt. @ 77/6 cwt.; 1 cwt. @ 86/- cwt.; 28 lbs. @ 10½d. lb.; 7 lbs. @ 1/- lb.; Alb B.P., 3½ cwt. @ 140/- cwt.; 28 lbs. @ 1/6 lb.

Paraldehyde, B.P., 1 lb. @ 16/- lb.

Pepsin, B.P., 1 lb. @ 30/- lb.

**S**oda Hyposulphite, pea cryst., 1 cwt. @ 70/- cwt.

Syr. Scillæ, P.B., 7 lbs. at 10½d. lb.

" Sennæ, P.B., 7 lbs. @ 1/4 lb.

" Tolut, P.B., 7 lbs. @ 1/3 lb.

Sugar of Milk, P.B., 1 cwt. @ cwt.; 7 lbs. @ 4/7 lb.

**U**ng. Sulphuris, B.P., made with Paraff. Mell's basis, 28 lbs. at 1/6 lb.; 7 lbs. @ 1/7½ lb.  
 " Zinci Oxid., made with Paraff. Mell's basis, 28 lbs. @ 1/6 lb.

\* Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

**SACCHARINE  
550 STRENGTH****100 lbs. for  
Prompt Delivery**

APPLY—

**THÉVENAZ & CO.,**  
LLOYDS BANK CHAMBERS,  
MARKET PLACE, HULL.Telephone:  
Central 2704.Telegrams:  
"Thévenaz Hull."**ACETIC ANHYDRIDE.**

Aspirin	Betanaphthol (Medicinal)
Phenacetin	Benzonaphthol
Paramidophenol	Paraphenylene-
Saccharin	diamine
Photo Chemicals and Developers	

**V. C. NORTH & CO.**

76 FINSBURY PAVEMENT, E.C.2.

Phone: Wall 7781. Telegrams: "Hydracetol, Phone, London."

**ALL . . .  
Chemicals & Drugs**PHARMACEUTICAL and TECHNICAL,  
**WHOLESALE and EXPORT**  
INQUIRIES SOLICITED.**V. A. PICERNO**

92 Falcon Road, BATTERSEA, LONDON.

Telephone: BATTERSEA 1612.

Telegrams: "PICERNO, FALCON RD., BATTERSEA, LONDON."

**FOR  
QUININE  
& SALTS**

ALSO

QUINIDINE	}	AND SALTS
CINCHONINE		
CINCHONIDINE		

AND

**SUGAR-COATED QUININE TABLETS**MANUFACTURED BY  
**AMSTERDAM QUININE WORKS,**  
Wittenkade 48/50, Amsterdam,

APPLY TO

SOLE AGENTS for the UNITED KINGDOM:—  
**COURTIN & WARNER,** 8 Harp Lane,  
London, E.C.3.

For samples, prices and particulars.

Telegrams: "Accourtina, B'gate London."  
Telephone No.: Avenue 2220.



**E M E T I N E****HYDROCHLORIDE  
HYDROBROMIDE**

ALSO

**EMETINE - BISMUTH - IODIDE,  
ATROPINE, STRYCHNINE,  
CAFFEINE, THEOBROMINE, NICOTINE  
QUININE SALTS,  
IODINE & BROMINE PREPARATIONS****Mercurials, Refined Camphor,  
MORPHINE AND CODEINE  
Alkaloids and Salts.****Opium and all Opium Derivatives.****WHIFFEN & SONS, LTD., BATTERSEA, LONDON, S.W. 11.**

Telegrams: "WHIFFEN LONDON."

Telephones: 254, 255 BATTERSEA.

Codes for Telegraphing: A B C; Lieber's.

**SANDAL WOOD  
OIL.**Whiffen & Sons, Ltd., are  
sole Consignees of the**Mysore  
Government**

Standard Product.

Complies with requirements of all  
Pharmacopœias.*Samples can be had upon application to—***SACCHARINE****INSOLUBLE - GUARANTEED U. S. P. 550.****600 lbs. Afloat****In 25-lb Containers****WRITE****BROTHERTON-RATCLIFFE & CO.  
LTD.****WINCHESTER HOUSE, E.C. 2.**

TELEPHONE: London Wall 5085.

T. A.: "Ebbenzolla, Ave, London."



Since 1780 we have been continuously associated with the handling of Drugs and the manufacture of Pharmaceutical Preparations, and during the past three-quarters of a century or more have specialised in the production of ALKALOIDS, ANÆSTHETICS, ANTISEPTIC LISTERIAN and other SURGICAL DRESSINGS. Undernoted is a list of some of the articles which we can offer to advantage:—



Morphine

Codeine

Apomorphine

Aceto-Morphine  
(Heroin)

Ethyl-Morphine  
(Dionin)

Cotarnine  
(Stypticin)\*

Narcotine

Papaverine

Berberine

Emetine

Homatropine

Hydrastine

Strychnine

Veratrine

### Chloroform & Ether

of highest possible purity,  
for Anæsthesia.

### Surgical Dressings

in which uniformity of  
medication is  
guaranteed.

### Surgical Catgut

in every form. Specially  
selected and tested.

Aloin

Caulophyllin

Cimicifugin

Chrysarobin

Euonymin

Hamamelin

Iridin

Leptandrin

Podophyllin

Salicin

Scammony

Resin

Spirituos

Galenicals

in bond

*For Wholesale and Export only.*

# J. F. MACFARLAN & CO

Manufacturing  
Chemists :: ::

Edinburgh & London.



Telegrams:  
"PAGANINI CANNON,  
LONDON."

# CHAS. PAGE & CO.

Telephones:  
AVENUE 1729  
(3 lines).

47/51 King William Street, LONDON, E.C. 4.

OFFER AT FIRST HAND FOR PROMPT DELIVERY:

ACETIC ANHYDRIDE  
BARIUM CHLORIDE  
BENZO-NAPHTHOL  
BETA-NAPHTHOL  
CALCIUM ACID PHOSPHATE  
CHLOROPHYLL

BALL & FLAKE NAPHTHALINE  
MAGNESIUM SULPHATE  
PARAPHENYLENEDIAMINE  
SODIUM ACETATE  
" BISULPHITE POWDER  
" " SOLUTION  
" NITRITE

SODIUM PRUSSIATE  
" PHOSPHATE  
" PYROPHOSPHATE  
" SULPHITE  
(Coml. & Peas)  
TARTARIC ACID  
THYMOL

J. FOREST, Lyon, France

114 Rue Sully.

## BENZOIC ACID

AND DERIVATIVES.

Sole Representatives:  
H. SLOOG, 51 Anson Rd.,  
London, N.W. 2.  
Telephone: Willenden 1762.

Benzolo Acid  
Sodium Benzoate  
Benzonaphthol

WE CAN OFFER FIRST HAND

## SODA SULPHATE (PEA XTALS.)

ACETIC AND OXALIC ACID.

ACID SALICYLIC.

MAGNESIA CARBONATE POND.

SULPHUR ROLL AND FLOWERS.

GUAIACOL CARBONATE

A. D. CHESTER & CO., Ltd.

Chemical Works, Drummond Road, Bermondsey, London.

Telephones - - Nos. 6 and 4782 HOP.

# SULPHATE OF MAGNESIA

(EPSOM SALTS)

Druggists' Refined B.P.  
& Commercial Qualities

PROMPT AND FORWARD DELIVERY

C. CHRISTOPHERSON & CO.

6 Lloyd's Avenue, London, E.C. 3.

Telephone Nos.: AVENUE 3220 and 3221.

Sole London Agents for  
JOSEPH TOWNSEND LTD.  
GLASGOW.

# SALICYLIC ACID, B.P.

HOLT, THOMPSON & CO.  
(LIMITED)

Fine Chemical Manufacturers,

Manesty Buildings,  
College Lane,  
LIVERPOOL.

Works: Binns Road, LIVERPOOL

Telephones { Offices: Royal 2060.      Telegrams:  
                  Works: Old Swan 413.      "Salol Liverpool."



# THOMAS MORSON

AND SON LIMITED

ESTABLISHED  
1821

PARALDEHYDE B.P.  
BISMUTH SUBGALLATE  
ACID ACETYL-SALICYLIC B.P.  
REDUCED IRON B.P.  
PHENOLONE B.P.



OFFICES:  
GRAY'S INN ROAD,  
LONDON, W.C. 1.

WORKS:  
PONDERS END,  
MIDDLESEX



# MONSANTO CHEMICAL WORKS

ST. LOUIS, MO., U.S.A.

MANUFACTURERS OF

ACETANILID

ACETPHENETIDIN  
(Phenacetin)

ACETYL-SALICYLIC ACID  
(Aspirin)

CAFFEINE  
(Pure Alkaloid)

CHLORAL HYDRATE

PHENOLPHTHALEIN

CARBOLIC ACID CRYSTALS

COUMARIN

SACCHARIN

SALICYLIC ACID

SALICYLATE OF SODA

SALOL

VANILLIN

GLYCEROPHOSPHATE of SODIUM

(Pure Crystals and Powdered)

GLYCEROPHOSPHATE of SODIUM

(Solution 75 %)

GLYCEROPHOSPHATE OF POTASSIUM 75%

Also GLYCEROPHOSPHATES of  
IRON, MANGANESE, MAGNESIUM, etc.

New York Branch: Platt and Pearl Sts.

# Rollin Chemical Co. Inc.

CHARLESTON, W. Va., U.S.A.

BARIUM BINOXIDE (for manu-  
facture of Hydrogen Peroxide)

PRECIPITATED SULPHATE OF  
BARIUM (Blanc Fixe, Dry).

BARIUM CHLORIDE.

BARIUM NITRATE.

BARIUM CARBONATE, 99 %

SODIUM SULPHIDE FUSED, 60 %

General Agents :

NATIONAL ANILINE & AND  
CHEMICAL CO., Incorporated,  
244 Madison Ave., New York, U.S.A.

# Swiss Bank Corporation

Basle, Zurich, St. Gall, Geneva, Lausanne, Bienne.

London Office - - - 43 LOTHBURY, E.C. 2.

West End Branch: 11c REGENT ST., WATERLOO PLACE, S.W.1.

Capital Authorised & Fully Paid-up £3,280,000

Reserves - - - - £1,110,000

Banking and Exchange Business of every descrip-  
tion transacted. The Bank will gladly furnish the  
Chemical and Drug trades with all available  
information regarding Trade and Industry in  
Foreign Countries.

# "VERMIJELLI"

Kills Lice, Fleas, Bugs, Mosquitos, Harvest Bugs, Midges,  
Jiggers, Tombu-Flies, Gad-flies, etc.

Soluble in Water. Acts like balm on the skin.

PREVENTS

**TYPHUS AND MALARIA.**

See PROFESSOR LEFROY'S REPORTS.

Manufactured by

**S. BOWLEY & SON,**

Wellington Works, Battersea Bridge,  
LONDON, S.W. 11.

(C)

# ASPIRIN

PURE ENGLISH

ACETYL-SALICYLIC ACID, B.P.

M.P. 135° C.

Free from SALICYLIC, ACETIC,  
TARTARIC, and CITRIC ACIDS,  
BORAX and all other impurities  
and adulterants.

The complete purity of our product, combined with its  
beautiful physical state and well-crystallised condition,  
render it easily superior in every way to the German  
product it has replaced.

PHYSIOLOGICALLY PERFECT.

Supplied in Wholesale Quantities only.

**PICKARD, IVE & RANKIN, LTD.,**

186/88 Walmer Road, Notting Hill, W. 11.

Phone: 4500 Park.

Telegrams: "Pickiveran, Norkens"



# The ANGLO-FRENCH DRUG CO., Ltd.

(late M. BRESILLON &amp; CO.)

(SOLE AGENTS FOR THE BRITISH EMPIRE, COLONIES AND DOMINIONS)

**GAMAGE BUILDING - - - LONDON, E.C. 1.**

Telegrams—"Ampsalyas London."

Telephone—Holborn 1311.

The most modern and approved Therapeutic Agents as supplied to the War Office, Admiralty, Colonial Governments, and largely prescribed by the Medical Profession throughout the civilised world.

## AMBRINE.

A great advance in the treatment of burns (slight or severe). Gives immediate alleviation of pain.

[Also for Chilblains, Ulcers, &amp;c.]

## AMPSALVS.

For the immediate production of "914" Solution. Self-contained. Simple and perfectly aseptic.

## BIOSULFOL.

Assimilable Sulphur Colloid. Entirely absorbed. For Chronic Mucous Affections, Rheumatism, Skin Diseases, &c.

## COLLOIDS.

(CHEMICAL).

See Biosulfol, Cuprase, Iodargol, Iodeol.

## COLLOIDS.

(ELECTRIC). Gold, Platinum, Silver, Selenium, Copper.

## CRYOGENINE.

(LUMIERE)

A general Antipyretic Powerful Analgesic. Supersedes ANTIPYRIN, PHENACETIN, and PYRAMIDON.

## CUPRASE.

Specially prepared CHEMICAL Colloidal Copper for CANCER. Has given most encouraging results in a good number of cases.

## CYTO-SERUM.

Intensive Strychno-Arsenical Medication for Pulmonary Tuberculosis, Syphilis, Pernicious Anæmia, &c.

## DIABETIFUGE.

A successful Anti-Diabetic. Gives most satisfactory clinical results (formula given). Administered in Cachets.

## DOSURINE OUTFIT.

Urine Testing Case. Exceedingly compact and complete. For pocket.

## ENDOCRISINES.

Organo-therapy Extracts of Internal Secretory Glands prepared *in vacuo* at freezing-point.

## BILEYL

A pure Extract of Ox-gall.

## ENTEROVACCIN.

(LUMIERE.)

Antityphoid inoculation by the internal administration of specially prepared cultures. 180,000 successful cases in the French Army.

Safe and certain immunity.

Tested as per L.G.B. Regulations.

## GALYL.

Salvarsan and Neo-Salvarsan substitute (Intravenous or Intramuscular). Effective and safe. Produces no undesirable effects.

## HECTARGYRE.

A combination of Hectine with Mercury. Intramuscular Injection; also in Pills and Drops.

## HECTINE.

Anti-Syphilitic. Low Arsenic percentage. Good results in intractable Syphilis. Intramuscular Injection; also in Pills and Drops.

## HEMOPLASE.

(LUMIERE.)

Hæmoglobin in its natural state. Iron in most assimilable form. Tuberculous Affections, Anæmia, &c.

Injection; also Pills for Cachets.

## HERMOPHENYL.

(LUMIERE)

(Sodium Mercurio-phenyl Disulphonate). Antiseptic Antisyphilitic, of low Toxicity.

Tablets for solution; Soap, Ampoules, Pills, etc.

## IODARGOL.

Electro-Chemical Colloidal Iodine in various forms.

Specially successful as an Injection in Gonorrhœa. Painless.

## IODEOL.

Colloidal Iodine.

Specific for Pneumococcal Disease. Simple, Infective, or Broncho-Pneumonia, TUBERCULOSIS. By the mouth or Injection.

## IODOGENOL

(PEPIN.)

Iodine in its most reliable and palatable form.

Perfectly assimilable. Has 38 times the activity of Potassium Iodide. Always well tolerated.

## KINECTINE.

A Quinine Salt of Hectine. Prophylactic and Curative for Hay Fever, Rhinitis, Influenza. In Tablets.

## MERSALV.

A fine Mercurial Cream. Contains 10 per cent. Metallic Mercury.

A non-greasy preparation, entirely and quickly absorbed.

## NEOCAINE-SURRENINE.

A perfect Cocaine substitute of low toxicity.

Reliable and safe.

Spinal and Local Anæsthesia. Ointments, Gargles, Snuffs, &c.

## OPOLAXYL

for Constipation. A combination of pancreatic, biliary, and intestinal secretions. A normal regulator of the intestinal functions. Tablets.

## PERSODINE.

(LUMIERE.)

Composed of pure alkaline Persulphates in Tablet form. Perfectly stable. A most energetic tonic and digestive stimulant.

## RHEANTINE.

(LUMIERE.)

For the treatment of Gonorrhœa in its various stages by the internal administrations of specially prepared Gonococci. In Spherules. Rapid, effectual, harmless.

## STANNOXYL

Is an Oxide of Tin and Tin-metal free of lead. The treatment of Carbuncles, Boils, Anthrax, Acne, Styes and diseases arising from Staphylococcus.

## SUPSALVS.

Stable Suppositories of "606" (French Manufacture). Simple, effective, harmless. Give excellent clinical results.

## TAMPOVULES.

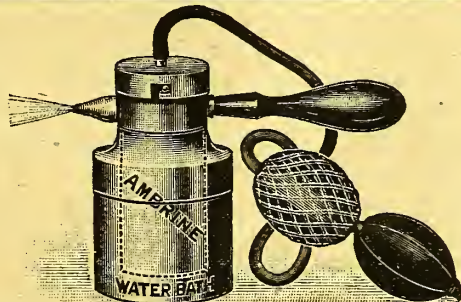
A complete Gynæcological Dressing, consisting of a soluble ovule combined with a vaginal tampon. Each in hermetic metallic case for hot climates.

## URASEPTINE.

Composed of Urotropine and Helmitol. A powerful Urinary Antiseptic. Dissolves and eliminates Uric Acid.

## HYPERTHERMAL-THERAPY.

The most efficient means and method of ensuring active Hyperthermal-Therapy to the practical treatment of Burns, Varicose Ulcers, Rheumatism, Gout, Arthritis, Neuralgia & similar affections.



May be applied with a camel-hair brush, but our specially designed spray greatly facilitates the application of AMBRINE, especially in the case of wounds or extensive surfaces.

## AMBRINE.

Ambrine is the only Authorised preparation of Dr. Barthe de Sandfort. We are compelled to state this, as there are various imitations.

### WHOLESALE PRICES

(Unstamped).

Packets (about 1½ oz.) ... 6/9 per doz.

" ( " 4½ " ) ... 1/9 per pkt.

By weight, for Dispensing 4/9 per lb. (not less than 1 lb.)

Special Spray, 24/- Duplex Tin, 5/6



# SACCHARINE 550

READY ON SPOT.

APPLY TO DIRECT SHIPPERS—

**LINTON, HUBBARD & ANDREW, 72-75 Fenchurch St., London, E.C. 3**

Telephone: 1892 Avenue.

A B C and Lieber's Codes.

Cables and Telegrams: "LINTEOLO LONDON."

## TOMODA & COMPANY,

WHOLESALE DRUGGISTS, EXPORTERS, IMPORTERS AND MANUFACTURERS.

OFFICES: Tokyo, Yokohama, Osaka, Dairen (Dalny,) Singapore.

FACTORY: Hiranuma, Yokohama.

LABORATORY: Marunouchi, Tokyo.

THE SUPPLIERS OF THE FOLLOWING JAPANESE PRODUCTS:

Ammonia Sulpho-Ichthyol, Agar-Agar, Aniline Oil, Argent Proteinic, Arsenobenzol, Caffein Pure, Camphor, Chalk Precipitated, Chamomile Flowers, Cod Liver Oil, Copper Sulphate, Epsom Salts, Glycerine, Insect Flowers and Powder, Iodide Potass., Iodide Soda, Iodine Pure, Iodoform, Kuromoji Oil, Magnesia Carbonate, Menthol, Menthol Cones, Naphthalin, Neoarsenobenzol, Peppermint Oil, Salicylic Acid, Salicylate Soda, Sulphate Iron, Staraniseed, Talcum, Yellow Prussiate Potass., Zinc Oxide, Ginger, etc. etc. Also Glasware and Bottles.

Correspondence respectfully invited to

**TOMODA & CO., 4-CHOME, HONCHO, NIHONBASHIKU, TOKYO.**

## CELLONITE COMPANY, DREYFUS & COMPANY, BASLE.

Works at Basle (Switzerland), & Belfort (France).

### CELLULOSE ACETATES "DREYFUS"

ACETIC ANHYDRIDE. TRIACETINE, CAMPHOR SUBSTITUTES.

**British Cellulose & Chemical Manufacturing Company, Limited,**

8 Waterloo Place, London, S.W. 1.

Tel. No.: Regent 4046 (2 lines.).

**EPSOM SALTS, Druggist and Commercial Qualities.**

**ZINC SULPHATE, Druggist and Commercial Qualities.**

*Prompt and forward deliveries.*

*Inquiries solicited.*

**WILLIAM BLYTHE & Co., LTD.,**

CHEMICAL MANUFACTURERS, CHURCH, LANCASHIRE.



# “Montserrat” Lime Fruit Juice

---

Supplies of the Sweetened Cordials are restricted owing to the shortage of sugar and heavy Government demands, but there are at present ample supplies of

## UNSWEETENED LIME JUICE

on the merits of which the “MONTSERRAT” Brand has been built up.

You should secure a stock while available, and push it as a refreshing and beneficial drink in the warm weather.

---

SOLE CONSIGNEES:—

EVANS SONS LESCHER & WEBB  
LIMITED

LIVERPOOL, LONDON,  
AND NEW YORK, U.S.A.



# SUBITOL

The product of an allied country PERFECTLY REPLACES  
**ICHTHYOL**

In 4 oz., 8 oz., and 1 lb. Tins, also in bulk quantities.

*To be had from Wholesalers, or direct from*

**CHAS. ZIMMERMANN & CO. (Chemicals), Ltd. (British Firm), 9 & 10 St. Mary-at-Hill, LONDON**

Teleg.: "Fuerst, Grace, London."

## 40 Years

personal knowledge of the  
**Best Sources of Supply**  
and of the requirements of  
**The ultimate Consumer**  
enable us to give prompt  
and economical delivery, at  
**Lowest Market Prices.**

Telephone: 4350 London Wall.

**FUERST BROS., Ltd., 17 Philpot Lane, LONDON. E.C.3.**

## CHEMICALS, OILS, PRODUCE, METALS, MINERALS, ACIDS.

### CREAM OF TARTAR (CRUDE & REFINED), STARCH, FLOUR,

Acetic, Tartaric, Citric, Oxalic, Formic and Salicylic Acids,  
Potashes, Alkalies, ESSENTIAL OILS, NATURAL & SYNTHETIC  
PERFUMES (Vanillin), LIQUORICE JUICE (Block and Sticks),  
etc., etc.

### COAL TAR PRODUCTS.

Aniline Oil, Salts, Colours, Saccharine, Photographic Developers,  
**STONEWARE CHEMICAL PLANT.** As supplied to  
H.M. Government

Advice and Assistance to our Customers cheerfully  
given by our Technical Department.

WHOLESALE ONLY.

# VICTOR BLAGDEN & CO.,

4 Lloyd's Avenue, LONDON, E.C. 3.

## AMMONIA PRODUCTS

SULPHATE  
MURIATE  
NITRATE  
CARBONATE

ACETIC ACID  
TRIOXYMETHYLENE

## TAR PRODUCTS

PITCH  
CREOSOTE  
CARBOLIC ACID  
PYRIDINE  
CRESYLIC ACID, etc.

FORMALDEHYDE  
ARSENIC

BENZOL  
TOLUOL  
SOLVENT NAPHTHA  
NAPHTHALENES

WHITE AND RED LEAD  
PARAFFIN WAX

## CYANOGEN PRODUCTS

PRUSSIAN POTASH  
PRUSSIAN SODA  
PRUSSIAN CALCIUM  
CYANIDE OF POTASSIUM  
CYANIDE OF SODA

OXALIC ACID  
CAUSTIC SODA

Telegraphic Address: "BLAGDENITE. FEN, LONDON."

## Warrington Chemical & Drug Co. LTD.

Paddington Works, WARRINGTON  
Manufacturers of

**Salicylic Acid & Salicylates**  
OF FINEST B.P. QUALITY.

IMMEDIATE DELIVERY.

## LANKSHEAR, WICKSTEAD & CO., LTD.

Botany Mill, WOODLEY.

Telegrams: "RACEMIC, WOODLEY." Telephone: 180 Hyde.

MANUFACTURERS OF

**TARTARIC ACID B.P.**

Crystal and Powder.



# T.&H. SMITH LTD

MANUFACTURERS

OF

## MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS.

# STRYCHNINE

SALICIN  
CAPSICIN  
CANTHARIDIN  
PODOPHYLLIN

CAFFEINE  
EMETINE  
CHLOROFORM  
JALAP RESIN

ALOIN  
GINGERIN  
THEOBROMINE  
SCAMMONY RESIN

*Blandfield Works,  
EDINBURGH,*

*25 Christopher Street,  
LONDON, E.C.*

*37 Washington Street,  
GLASGOW,*

*Special Offer this issue*

## BORAX.

CHLORIDE BARIUM.  
OXALIC ACID.  
ACIDS FOR EXPORT.  
FORMIC  
ACID.  
GUM  
TRAGA-  
CANTH.

GLUES, GELATINES.  
GUMS AND WAXES.

INKS,  
SEASONS,  
FINISHES.  
LOGWOOD  
PRODUCTS.

CHEMICALS

## CHEMICALS

GUM  
ARABIC.  
BORIC  
ACID.  
SODA  
HYPO.

BICHROMATES.  
CHROME OXIDES.

IRISH  
MOSS.

DYE-  
WOOD &  
TANNING EXTRACTS

OILS, CHROME AND  
FAT LIQUORS.

**GOUGH, KIDSTON & CO.**

12 BERMONDSEY SQ., LONDON, S.E.

City Office: 43-45 Great Tower Street, E.C.

Tel. Add.: "Oughidston, Phone, London." Phone: 2029 Hob.

The Treatment of Disorders  
caused by Distomatosis.

LIVER-FLUKE KILLS  
Sheep and Cattle.

## LA FOUGÈRE GIGNOUX

(Veterinary Extract of Male Fern)

KILLS LIVER-FLUKE  
and Cures the Animals.

*Pamphlets and Price Lists on Application.*

**GIGNOUX FRÈRES & CIE,**  
Manufacturers of all kinds of Pharmaceutical Extracts,  
**DECINES, near LYONS (France).**

London Agent: R. Ansay, 44 Wilson Street,  
Finsbury, E.C. 2.  
(Telephone: London Wall 3103.)



# JOHN & JAMES WHITE,

7 WEST GEORGE STREET, GLASGOW, SCOTLAND.

MANUFACTURERS OF

# BICHROMATES

OF POTASH, SODA AND AMMONIA  
CHROMATE OF SODA.

Also HIGH STRENGTH SULPHATE OF AMMONIA AND TAR.

## SULPHATE OF COPPER

(CRYSTALS & GRANULATED)

HIGHEST PURITY 99/100 %  
Guaranteed.

## THE MOND NICKEL COMPANY, LIMITED,

39 VICTORIA STREET, LONDON, S.W. 1.

ALSO MAKERS OF

NICKEL, NICKEL SULPHATE,  
And NICKEL AMMONIUM SULPHATE.

Established  
— 1846 —

## Ferdinand ROQUES, PARIS.

Manufacturer of PURE PHARMACEUTICAL CHEMICALS.

COCAIN, PILOCARPIN, SPARTEIN,  
ATROPIN, HOMATROPIN, etc.

OTHER SPECIALITIES: Refined Camphor, Iodides, Iodoform, Iodothymol,  
Bromides, Bromoform, Bismuth Salts, Cacodylates, Methylarsinates.

SOLE AGENTS FOR THE U.K. (Wholesale only):

W. CHARITY & SONS, 14 Harp Lane, London, E.C.

FACTORY: St. OUEN (Seine).  
GOLD MEDALS, PARIS 1889, 1900.  
GRAND PRIX: TURIN 1911.  
HORS CONCOURS: LYONS 1914

## "ROQUES"

Telephone: AVENUE 4559.  
Telegrams: "CHARITY, LONDON."  
Codes: ABC, and LIEBER'S.

Cable Address:

"CELAITCH, NEW YORK"

## CHAS. L. HUISKING, Inc.

5 PLATT STREET, NEW YORK CITY.

## Brokers & Commission Merchants.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agents for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.



**Johnson, Matthey & Co. Ltd.**  
*Melters and Assayers to  
 The Bank of England the Royal Mint, etc.  
 Metallurgical Chemists, etc.*

PERFECT PHOTOGRAPHIC EMULSIONS  
 depend on the purity of their ingredients.  
**NITRATE SILVER**  
 is the most important of these, and it happens also to  
 be very sensitive to contamination.

A wide margin of safety has therefore always been  
 our principle in manufacturing it. First, through-  
 out the whole of our processes we use exclusively  
 vessels made of Gold and Platinum. Secondly, all  
 our first crystals are twice redissolved and recrystal-  
 lised. Thirdly, every batch of final crystals is tested  
 before passing into our stock.

Our guarantee of highest purity is thus assured. -  
*Competitive Quotations on request.*  
 Mark indents "Johnson, Matthey's."

None genuine if not labelled with our name & Trade Mark  
 Cables—"MATTHEY LONDON" (all Codes used)  
 Telephone—9740 CITY (6 lines).

**73-82, Hatton Garden**  
**LONDON E.C.1**  
*Established over 100 Years*

Telephone MATTHEY SMITH LONDON Telephone 9740 CITY 6 Lines

## P. WHIPMAN & CO. LTD.

(Governing Director: PHILIP WHIPMAN).

**Drug Merchants & Importers**

### CAN SUPPLY FROM STOCK

#### **BALSAM COPAIBA.**

Roots :—White Hellebore—Kava-Kava

Ipecac—Licorice—Sarsaparilla.

#### **EUCALYPTUS OIL.**

Seeds :—Fennel—Cummin—Cardamom.

#### **GUM TRAGACANTH.**

Leaves :—Senna—Stramonium—Thyme.

#### **SAFFRON.**

Powders :—Gentian—Hellebore—Insect.

Inquiries solicited for **ALL CRUDE DRUGS.**

Telegrams : "WHIMAZURA LONDON."

Telephone: AVENUE 5265.

**4 NEW LONDON ST., LONDON, E.C. 3.**

## MAGNUS, MABEE & REYNARD, INC.

NEW YORK, U.S.A.

IMPORTERS—MANUFACTURERS—EXPORTERS  
**ESSENTIAL OILS, DRUGS & CHEMICALS,**  
**SYNTHETICS,**  
**VANILLIN, COUMARIN, HELIOTROPINE**

*We Offer*

**LIQUID STYRAX** (Not U.S.P.)

**CHLOROPHYLL** (Alcohol & Oil Sol.)

**OIL PEPPERMINT** (Mohawk)

**OIL SPEARMINT** (Mohawk)

**LIME JUICE, CLARIFIED**  
 (Dominican)

Samples and Prices on Request.  
 Write for Latest Catalogue.

## LOZENGES

## PASTILLES

## EUCALYPTUS OIL

**Jules Denoual & Co.**

CARLTON WORKS,  
 ASYLUM RD., PECKHAM, S.E. 15



TWO SIZES ONLY.

**DR. J. COLLIS BROWNE'S  
CHLORODYNE****Prices and Terms :**

Size	...	...	...	...	...	1/3	3/-
Minimum Retail Price	...	...	...	...	...	1/2	2/10
<b>PRICE TO TRADE</b>	...	...	...	...	...	<b>11/9</b>	<b>29/6</b>
(Per Dozen)							

Discount 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged at cost, and are not returnable.  
Carriage forward.

**Terms:** Cash with order. Most Wholesale Houses supply on equal terms, so please order with your other goods.

**Dr. J. Collis Browne's****Chlorodyne**

is on P.A.T.A. Protected List, & must not  
be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,  
117 Union Street, S.E. 1.



**QUALITY AND TONE**

The Chemist, as well as the Clinician, recognizes the superiority of the original

**Fellows' Syrup**

to the ever-increasing preparations of the Compound Hypophosphites, and should co-operate with the manufacturers against the substitution of inferior imitations for the genuine.

The price of FELLOWS' SYRUP has been protected for many years

**THE FELLOWS MEDICAL MFG. CO., Inc.**  
NEW YORK

**SOUTH AFRICA, from Cape Town to the Zambesi**

**LENNON LIMITED**

Established in

**SOUTH AFRICA**  
at

**CAPE PROVINCE TRANSVAAL**

Cape Town  
Port Elizabeth  
East London  
Kimberley  
Graaff Reinet  
Allwal North  
Mafeking  
Oudtshoorn  
Wynberg  
Mossel Bay  
Paarl  
Stellenbosch

Johannesburg  
Fordsburg  
Germiston

**NATAL**

Durban

**ORANGE FREE STATE**

Bloemfontein

**RHODESIA**

Bulawayo  
Salisbury  
Gatooma

*Wholesale Druggists,  
Manufacturing Chemists,  
Druggists' Sundriesmen.*

**DEALERS IN**

**Surgical Instruments, Dental, Optical, and Photographic Goods, Perfumery, and Assay and Mining Requisites.**

Contractors to the Governments of  
**CAPE PROVINCE, NATAL, RHODESIA, TRANSVAAL,**  
and **ORANGE FREE STATE.**

London Office, Warehouse, and Factory—

**12-14 LAFONE STREET, TOWER BRIDGE, S.E.**

**Unrivalled position for the introduction and handling of Specialities**

This handy box  
is becoming better  
known each week  
that passes.



On the  
P.A.T.A.  
List.

# Choccoloids

REGD.

## The Cure for Constipation

Bonus to the  
**TRADE**

Choccoloids are supplied to the retailer in two sizes—at 12/- and 24/- per dozen. With each dozen small size we give you Free one small tin, and with each half-dozen large size one large tin. Retail price 1/3 and 2/6 respectively. This gives a profit of -

**FREE**

A large stock of Showcards is available to customers, and will be sent on request.

Choccoloids may be obtained from Wholesalers, or from

**The CHOCOLOID CO.**

Stirchley Laboratories - Birmingham.

# WANDS LIMITED

(Registered Office: 12 HAYMARKET),

21 Wellington Street, LEICESTER.

All inquiries to  
be addressed to

Tel. Address: "Wand."  
Nat. Tel. 1148.

Specialists in

## PILLS, TABLETS, CAPSULES.

PACKED OR IN BULK.

Private FORMULÆ faithfully COMPOUNDED.

**ALL GOODS AT LOWEST POSSIBLE PRICES.**

**BEST DRUGS.**

*Special Quotes to Large Buyers.*

# ATKINSON & BARKER'S ROYAL INFANT'S PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON, Ltd.  
13 Wesley St., Grosvenor St., C-on-M., MANCHESTER.

**DOES  
NOT  
CONTAIN  
any  
SCHEDULED  
POISON.**



# HAVE YOU WHOOPIING COUGH or MEASLES IN YOUR TOWN?

Our proposition regarding the vaporific cure

WITH  
FREE  
VAPORISER



WITH  
FREE  
VAPORISER

**FUMICAMACINE**

will prove of great interest to chemists in infected districts. To Sole Agents we offer exceptionally large profits.

RETAIL SELLING PRICES:

2-oz. bottle, 1/1½; 4-oz. bottle, 2/-; 16-oz. bottle, 6/- (including **FREE VAPORISER** with each bottle).

**THE COAL BY-PRODUCTS COMPANY,**

112 HIGH HOLBORN, W.C.1.

Telegrams: "COBYPROCO, WESTCENT, LONDON."

# Eucalyptus Oil B.P.

**PERRY & HOPE LTD.**

1 Leadenhall Street, London, E.C. 3.

Telegrams - "PERRYHOPE, LED, LONDON."  
Telephone - AVENUE 5661 (3 lines).

Tel: L.W. 7781. Tel. Add: "HYDRACETOL, PHONE, LONDON."

# BENZOATES

**LIMITED.**

ENGLISH

MANUFACTURERS OF BENZOIC ACID,  
SODIUM BENZOATE, Etc.

VERY FINEST QUALITY.

**76 FINSBURY PAVEMENT,  
LONDON, E.C. 2.**

# "HALACO" regd. SWEETENING TABLETS PURE SACCHARIN BASE

Perfectly pure and wholesome. 1 Tablet equal to a large lump of Sugar, put up in 250's, and 500's, in boxes.

1000 16/6, 5,000 16/3 per thousand,  
10,000 16/- per thousand, 20,000 15/9 per thousand tablets, cash with order.

HALACO HONEY WHITE SET.  
HALACO SANITARY TOWELS.  
SOOTHERS, LARGE VARIETY.  
TEATS, MOUNTS, FEEDERS,  
HYGIENIC TEATS, VALVES.  
BOTTLES, BRUSHES, ENEMAS.  
DYES, ANTISEPTICS, IGLODINE.

Send for List.

**HASTING, LANG & Co., Ltd.**  
1 ROMAN St., CHURCH St., MANCHESTER.

# Thomas Waide & Sons

FEATURE

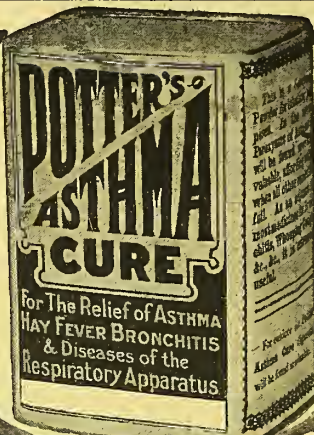
# CHEMISTS' PRINTING Of Every Description

All Orders and Inquiries  
will have best attention.

Samples to Colonies, 10/6,  
which is credited on orders  
:: of £10 and upwards. ::

**Kirkstall Road, LEEDS**





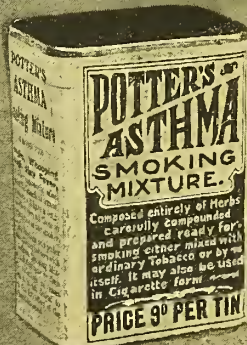
1/6 TINS  
(P.A.T.A. 1/6)

14/- DOZ.  
NET.

# POTTER'S Asthma Cure

ADVERTISED  
EVERYWHERE

GIVES INSTANT  
RELIEF



9d. TINS (P.A.T.A. 9d.)  
7/- DOZ. NET.



1/6 BOXES (P.A.T.A. 1/6)  
14/- DOZ. NET.

1/6 Boxes 10/- doz  
(P.A.T.A. 1/3 net)  
9d. Boxes (12 in box) 6/-

**POTTER & CLARKE LTD**  
60-64 Artillery Lane  
LONDON · E

NS

AND AT  
24 LUNA STREET, GREAT ANCOATS, MANCHESTER.



Nothing in a Pharmacy is more easy to sell or more profitable to handle than



**Because the Mouth & Throat are where most Illnesses Commence**

the public recognises in larger numbers every day the imperative necessity of keeping them clean and free from germs, and that it is wise to have a **"SoToL"** MOUTH and THROAT BATH two or three times a day and on retiring. Delightfully fragrant, antiseptic, and effectual.

*Chemists who have not yet stocked "SoToL" Antiseptic Mouth and Throat Baths (dissolved in warm water from Effervescent Tablets) are invited to apply for samples and full particulars to*

**The WESTERN DENTAL MFG. CO., Ltd.**

**74 Wigmore Street, London, W. 1.**

*Advertising matter free on request. Ask for particulars of Special Window Display offer.*

# A FEW NEW & NECESSARY LABELS.

Send for Samples.

**JAMES TOWNSEND  
& SONS,  
EXETER & LONDON.**

## Becker, Shillan & Co.

40 Eastcheap, LONDON, E.C. 3.

Telegraphic Address: "BECKDIETZ LONDON."  
ESTABLISHED 1862.

OFFICES AT  
LIVERPOOL, MANCHESTER & GLASGOW.

### EXPORT—IMPORT.

*Drugs, Chemical and  
Pharmaceutical Products.*

Oxalic Acid—Tannic Acid—Alum—  
Bichromate of Soda—Logwood Ex-  
tract—Aniline Dyes—Naphthaline—  
Sulphate of Copper—Epsom Salts.

TARTARIC ACID—CITRIC ACID—  
CREAM OF TARTAR—FORMALDE-  
HYDE—BROMIDES—SALICYLATES.

## LONABARC TRADING COMPANY

60 FORE STREET, LONDON, E.C. 2.

### PURE SPANISH ESSENTIAL OILS

SPECIAL OFFER—"LONABARC" OIL OF PENNYROYAL, 6/9 LB. D/D.  
THYMOL CRYSTALS                      BI-IODIDE OF THYME (ARISTOL).

### ROSEMARY, SPIKE LAVENDER, GERANIUM

SAGE AND RED THYME OILS.

ANISEED · CUMIN SEED · QUINCE SEED · GENTIAN ROOT  
ACONITE ROOT · MARSHMALLOW ROOT · ERGOT OF RYE, Etc.



### THE THREE SALTS.

Safest and surest system cleanser and health giver.  
It yields 50 % profit. Attractively advertised.

**HARLEY, Manufacturing Chemist, Perth, Scotland.**

## OFFER!

**SACCHARIN, Insoluble, 550 strength**  
\$21.00 per lb.

**SACCHARIN, Soluble, 500 strength**  
\$18.00 per lb.

Standard Monsanto Make. F.O.B. New York. Spot Goods.

**SAMSON ROSENBLATT,**  
19 FULTON STREET, NEW YORK CITY.



# 'Continuity of Process'

ROWNSON DREW & CLYDESDALE LTD.

## Links in the Chain of Continuity

### No. 3.—Stacking and Conveying.



No. 1.  
*Gravity  
Runway*

No. 2.  
*Sorting  
by  
Conveying.*

Stacking is one thing, conveying is another! This is the way these operations are regarded in most businesses.

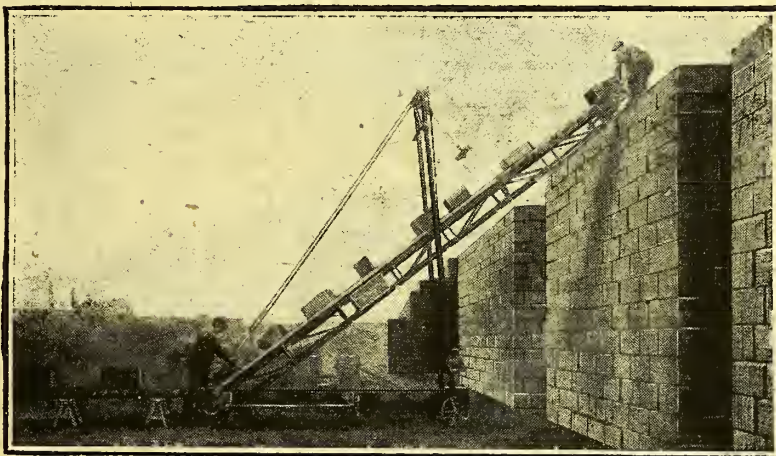
But in "Continuity of Process" methods stacking and conveying count only as one link, so closely are the two operations welded together.

Our Portable Gravity Runway conveys to the stack. Our Portable Stacker does the rest.

By these and similar mechanical means "Continuity of Process" methods overcome shortage of labour, make heavy work light work, and reduce working costs.

"Continuity of Process" methods eliminate factory congestion and overcome want of room. Where the latter is a difficulty the walls and ceilings and even the very roof are brought into use, and as a consequence much greater output is obtained under smooth working conditions in the same buildings where crush and congestion may now prevail.

You can't think how much "Continuity of Process" saves you in Stacking and Conveying alone. We can tell you that the saving is very great.



*Our Portable Stacker at work.*

The Government is saving and assisting labour in moving material by using miles of our GRAVITY RUNWAY, and large numbers of our portable STACKERS.

*Inquiry will cost you nothing—write to-day to*

Messrs. ROWNSON, DREW & CLYDESDALE, Ltd., issue through their Metal section a fortnightly Metal Market Report and Price List covering Box Hooping, Crescent Wire, Wire Nails, &c. And also a 600-page Encyclopædia of Iron and Steel. Request for these should be addressed Metal Department.

**ROWNSON, DREW & CLYDESDALE,**  
(Labour-aiding Engineers), LTD.

225 UPPER THAMES STREET, E.C. 4.

Telep.: 1070 Central (5 lines). Teleg.: "Rownsong" (Central).

104 WEST GEORGE STREET, GLASGOW. And at

Telep., Douglas 946. Tele.: "Rownsong Glasgow." NEW YORK.

THE OLD METHOD OF MOVING MATERIAL

ONE OF OUR METHODS OF MOVING MATERIAL



ESTABLISHED 1898  
**E. FORSHAW & SON LTD TEL. 123.**  
SOAP AND CHEMICAL PLANT MAKERS.  
WARRINGTON, ENGLAND.

SOAP & CHEMICAL BOILING PANS  
STEAM JACKETED PANS,  
MIXING PANS,  
EVAPORATORS, STILL'S &  
AND EVERY DESCRIPTION OF  
SOAP AND CHEMICAL PLANT.

No 1 Plant For Experimental purposes

No 2 Plant Output 100 to 200 pounds per day

No 3 Plant Output 300 to 400 pounds per day

No 5 Plant Output 2000 to 2500 pounds per day

ESTABLISHED 1898  
Telephone 11123

**E. Forshaw & Son Ltd**  
SOAP AND CHEMICAL PLANT MAKERS.  
WARRINGTON, ENGLAND.

**MILLED TOILET SOAP PLANT.**  
HOUSEHOLD AND LAUNDRY SOAP PLANT.  
GLYCERINE EXTRACTION PLANT.  
CAUSTICIZING PLANT.  
TALLOW MELTING PLANT.

No 7 Improved multiple roller mulling and mixing mill made with 18/2 or 14 rollers. This mill may be used in conjunction with our No 6 or No 7 pladder. Output 5 tons per day.

No 8 large combined triple granite roller mill with triple rotary cutter. Granite rollers 12 inches long, 20 inches diameter.

No 6 Grant Drazie lined pladder Output 2 tons per day

No 6 Grant Quadrate Roller Mill Output 2 tons per day

No 6 mammoth pladder with reduction gear for motor drive. Output 3 tons per day

Toilet Bar Cutting Machine.

Rotary Cutter or Shredder.

# PURE ORANGE WINE

## A. MILLAR & CO., LTD., DUBLIN

VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.  
London Agent: JAMES STIRTON 43 GREAT TOWER STREET, E.C.

(Wholesale only)

# W. EDWARDS & SON,

157 Queen Victoria Street,

239 &amp; 240 Upper Thames Street,

LONDON, E.C.

PRICE LISTS  
SENT ON  
APPLICATIONORDERS  
CAREFULLY  
& PROMPTLY  
EXECUTED

WHOLESALE AND EXPORT DEALERS IN

**Druggists' Sundries**

AND

**Proprietary Articles**

ENGLISH, AMERICAN, FRENCH, &amp;c.

AGENCIES  
UNDERTAKEN  
ON ADVAN-  
TAGEOUS  
TERMS FOR  
PROPRIETARY  
ARTICLES &  
OTHER GOODS

Telegraphic Address : "MEDICINES, CENT, LONDON."

Telephones : CENTRAL 1400 &amp; 1401.



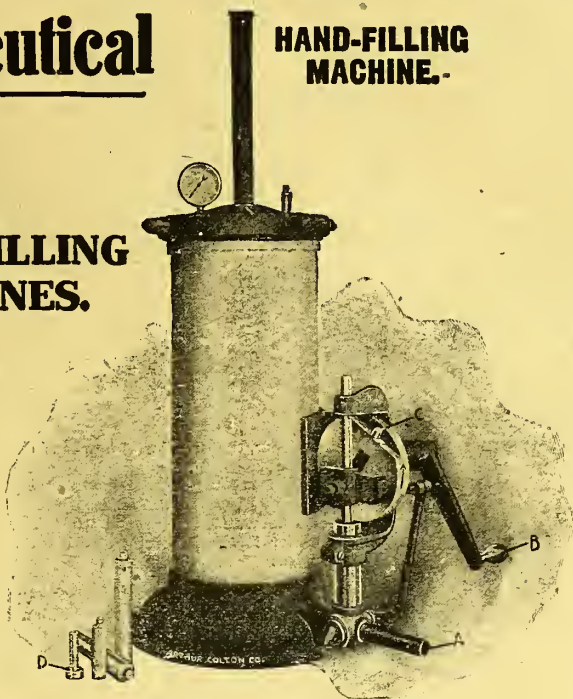
# Colton's Pharmaceutical Machinery.

**COLLAPSIBLE TUBE FILLING  
and CLOSING MACHINES.**

**TABLET AND  
PILL PLANT,**  
etc.

LISTS FREE ON APPLICATION

JOHN J. GRIFFIN & SONS, LTD., KINGSWAY, LONDON, W.C.



## PURE DRINKING WATER.



**The  
Pasteur  
Chamberland  
Filter.**

OFFICIAL GOVERNMENT  
STATEMENT:

Wherever the **PASTEUR  
FILTER** has been applied,  
**TYPHOID FEVER** has  
disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

**The British Pasteur Chamberland Filter Co.**  
5 WHITE STREET, FINSBURY,  
LONDON, E.C. 2.

## CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN  
STEEL, CAST IRON, BRONZE  
AND SPECIAL ALLOYS

OR  
**TANTIRON**

ORGANIC & SYNTHETIC PRODUCTS,  
SALICYLIC ACID & SULPHONATED,  
CHLORINATED & ACETYLATED COMPOUNDS.  
PLANTS FOR NITRIC, SULPHURIC &  
HYDROCHLORIC ACID.

**LENNOX FOUNDRY CO., LTD.**

GLENNVILLE GROVE, NEW CROSS,  
LONDON, S.E.

Telegrams: "Equifex Dept., London." Telephone: New Cross 778.





The Jag—The Repair  
and  
**Mend-a-Tear**  
PATENT

Mend-a-Tear, that wonderful new material which mends without stitches.  
Note that the above illustrations are reproduced from actual photographs of the same piece of cloth before and after treatment—as also that neither photographs nor negatives has been touched by the artist. And with this evidence before you say if you don't think you could sell this wonderfully novel line. There's a really good profit for you, and it retails in either form—General Outfit (for all kinds of clothes)—Khaki (for Macintoshes, etc.), at  
**1/- per Carton.**

Ask your wholesaler for further details, terms, &c., or apply to the  
Patentees and Manufacturers:—  
**LEICESTER RUBBER COMPANY, LTD.,**  
Makers of the World-renowned John Bull Motor Cycle Tyres,  
**18 GRANBY MILLS, LEICESTER.**

1291

## ASBESTOS FILTER FIBRE

PURE, NEUTRAL AND INSOLUBLE.

Specially prepared for the filtration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharmaceutical Products and Essences.

GIVES A CLEAR AND SPARKLING FILTRATE AT A MINIMUM COST.

Write for Samples and Prices to

**TURNER BROTHERS ASBESTOS Co., Ltd.,**  
ROCHDALE, England.

## MEDICAL DISPENSING BOTTLES.

**T. FERRY & SON, Ltd.**  
PARK LANE GLASS WORKS,  
GATESHEAD-ON-TYNE.

Telegrams:  
"BOTTLES GATESHEAD."

Telephone:  
70 GATESHEAD.

## CHEMISTS' PRINTERS



LABELS • CARTONS • SHOWCARDS • ETC.  
ESTABLISHED 1841.

GREAT TURNSTILE.

**HIGH HOLBORN, W.C. 1.**

TELEGRAMS: FORSHAPCO, LONDON.

TELEPHONE: CITY 65.





## Chemist - Opticians

can obtain all their

## Optical Requirements

from

### ELLIOTT OPTICAL CO.

(Guy E. Druiff, Proprietor),

104/5 GREAT SAFFRON HILL,  
LONDON, E.C. 1.



# Glass Bottles

Medical & Dispensing Bottles of every description. Emulsions, Ammonia Ovals, Brilliantines, Limes, Vials, Varnish Panels, Coffees, Sauces, Cordials, Crystal Bottles, Honey Jars, Vaseline and Pomade Bottles, &c. &c.

PROMPT DELIVERIES.  
SEND US YOUR INQUIRIES.

## TOM LAYCOCK & CO.

(TOM LAYCOCK, Proprietor),

Isles Lane, Holbeck, LEEDS.

ESTABLISHED 1847.

# Allcock's PLASTERS

A REMEDY OF 70 YEARS' STANDING.

**Allcock's Plasters**  
**Allcock's Corn and**  
**Bunion Plasters**  
**Brandreth's Pills**

*The  
Three  
Reliables.*



Prices and Terms  
on  
application to

ALLCOCK - -  
MANUFACTURING  
COMPANY - -

22, Hamilton Sq.,  
Birkenhead,  
England.

"Sold all round the World."

# LOOFAHS

8 in. to 10 in. long	....	24/-	Per Gross.
10 in. ,, 12 in. ,,	....	30/-	„
12 in. ,, 14 in. ,,	....	42/-	„
14 in. ,, 16 in. ,,	....	54/-	„

Net Cash with Order.

Carriage Paid on 30/-  
Parcels in United Kingdom

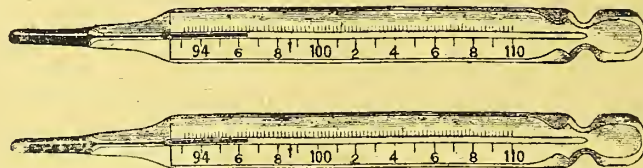
## THOMAS SWALES

Druggists' Sundryman,

24 Butts Court, & 89 Albion St., LEEDS

Telephone No. 3702.

# Clinical Thermometers



**Guaranteed Accurate.**

**The Cost is Low.**

WRITE FOR SAMPLES AND PRICES TO

**MOTOSABURO TANABE,**

HONCHO, NIHOMBASHI-KU,

TOKYO, JAPAN.

CABLE: "TANEMOTO".

CODES: A B C 5TH & BENTLEY'S.

*Manufacturer, Importer & Exporter of*  
**Drugs, Chemicals and**  
**Druggists' Sundries.**

*Correspondence with foreign and colonial firms solicited.*

## AMPOULES.

**JOHN BELL & CROYDEN, Ltd.,**

Wigmore Street, W.1.

**Specialise in Ampoule Filling.**

**CHEMISTS' SPECIAL FORMULÆ PREPARED  
ACCORDING TO REQUIREMENTS.**

**Special Quotations for Large Quantities.**  
SEND FOR PRICE LIST.

WE ARE CONSTANTLY RECEIVING LETTERS  
FROM CHEMISTS—

## HEALO AGENTS

enclosing testimonials from purchasers, all of which testify to the value of the healing properties of **HEALO**, eminently satisfactory to us and equally so to the Agent. His interest is stimulated by the knowledge that he is handling a good article and a good paying line. On the P.A.T.A. Sells at 1/3, and costs with bonus 9½d.

**MAURICE SMITH & CO.**

Manufacturing Chemists, **KIDDERMINSTER.**

## DIABETES

**CHELTINE FOODS CO., CHELTENHAM.**  
FLOUR, BISCUITS, BREAD, FOOD, Etc.

Highly Recommended by Medical Profession.  
**INFANTS' FOODS** packed under Chemists' "OWN NAMES."  
*All particulars on request.*

## MICROSCOPES SPECTROSCOPES

*Bought, Sold or Exchanged.*

**JOHN BROWNING, 146 Strand, London.**

ESTABLISHED 1865.

## SACCHARINE.

**INSOLUBLE, 550.**

Manufactured by the most completely equipped and modern Saccharine Plant in America.

SPOT.

AFLOAT.

FORWARD.

Also: **PARAPHENITIDIN.**

**PHENACETIN.**

Telephone:  
City 6321.

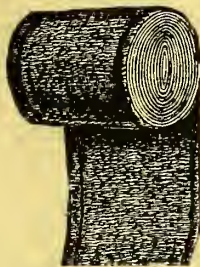
**K. MALMBERG, 110 Cannon Street, London, E.C. 4; & New York.**

Telegrams:  
"Obtempero, Cannon, London."



# CRÊPE BANDAGES. BRITISH MAKE.

**LIGHT AND  
COMFORTABLE  
TO WEAR.**



**ELASTIC,  
BUT CONTAINS  
NO RUBBER.**

Fig. 1331.—The "Saffron" Crepe Bandages, fast edges, 5½ yards long when stretched out—

		Width 2 in.	2½ in.	3 in.	3½ in.
Medium substance for ordinary wear	...	per doz. 10/-	11/6	13/-	16/6
Stout	...	13/-	15/-	15/6	24/-

Full directions for use with each Bandage.

Cotton Elastic Web Bandage ... per doz. yards, 2 in. 5/-, 2½ in. 6/6, 3 in. 8/6.

## THE "EMPIRE" ELASTIC HOSIERY.

Cotton Elastic, ordinary quality, for hard wear ... per pair 5/6      Stockings. Knee Caps. Anklets. Leggings 4/6      4/6      5/-

5% discount allowed for prompt cash off above prices.

We are the right House for British-made Goods, Catheters, Enemas, Elastic Hosiery, Hot Water Bottles, Injection Syringes, Pessaries, Sponge Bags, Trusses, Water Beds, Water and Air Cushions, Waterproof Sheeting; and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE.

OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

# BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

✽ THE FASTNET ✽

## First Aid Cabinets

No. 1.

Dimensions: 10 by 9 by 8½ in.

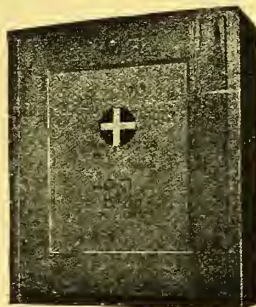
25/- ea



No. 2

Dimensions: 15 by 12½ by 6½ in.

45/- ea



Carriage paid. Net cash with order. Wholesale terms on application.

Complying with the requirements of the Home Office, First Aid Order of October 12th, 1917, in Blast Furnaces, Copper Mills, Iron Mills, Foundries and Metal Works.

As recommended also in the Memorandum on Sickness and Injury issued by the Health of Munition Workers' Committee, such First Aid provision is desirable in all Factories, Work shops and premises in case of accidents.

JOHN TIMPSON & Co., Ltd., 104 & 106, Golden Lane, London, E.C.

**FREDK. FINK & CO.,**

10 &amp; 11 MINCING LANE, LONDON, E.C.

**SPECIALITIES.**—Gums Arabic and Tragacanth as imported or finely powdered.**SHADEINE**

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

**TRIAL BOTTLES** 8d. size supplied on pretty showcards  
C/- doz.; 1/4 size, 12/- doz.; 3/6 size, 33/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

**AUG. LEVERMORE & CO. Ltd.,** 8-10 Ct. St. Melons, LONDON, E.C.

Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.

**RUBBER STAMPS****CHEMISTS' STAMPS,  
SEALS AND STENCILS  
A SPECIALITY.**C. D. RICHFORD,  
8 & 9 Snow Hill,  
LONDON, E.C.

Full Illustrated Lists Free.

Special Terms to Chemists.

**Wrinkles Absolutely Removed**

BY

**Denovo**IN DAINTY  
BOULTON FOIS

From your Wholesaler or

The Thames Chemical Co., Ltd.,  
Amberley House, Norfolk St., Strand, W.C.P.A.T.A. 3/9.  
Wholesale terms  
on application.**DISINFECTANTS**

OF ALL KINDS

Cheapest Makers of Co-efficient Acids and Fluids

**HENRY ELLISON, LTD., CLECKHEATON, YORKS****JOHN E. RAWORTH**

CHARTERED PATENT AGENT,

**PATENTS, TRADE MARKS AND DESIGNS.**THE  
OLD MANSION HOUSE, and QUEEN ANNE'S CHAMBERS, 77  
73 Cheapside, E.C. WESTMINSTER, S.W.**CACHETS**

WEST-END PHARMACY SUPPLY

(R. Rios)

231 REGENT ST., LONDON, W. 1.

Cachets. All sizes, plain and embossed.

Orders accepted for coloured &amp; printed.

**BLENOSAN CAPSULES**

(Kava-Kava &amp; Santal Compound).

Medicinal Capsules. Fine Chemicals.

**WEPS.**  
The Best Quality.**CACHETS "FINOT"**

(White or Coloured).

With inscriptions in any desired

tint; also Plain or Embossed.

"Beautifully made and the inscriptions give them

a distinction all their own."—C. &amp; D.

"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.  
**COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.**

In 17 Sizes, to fit the various types of Cachet Machines.

**Glycerine Syringes**

(VULCANITE AND GLASS).

2 dr., 11/- per dozen; 1/2 oz., 13/6 per dozen.

**THE GALEN MANFG. CO., LTD.,**

Wilson Street, New Cross, London. S.E. 14.

**Van Horn and Sawtell**

—LONDON AND NEW YORK—

MAKERS OF

**"K-Y" LUBRICATING JELLY**

IN COLLAPSIBLE TUBES AND OF

**"Van Horn" Sterile Sutures and Ligatures**

IN GLASS TUBES — PRICES ON APPLICATION

81-88 HIGH HOLBORN, W.C.

**S.V.M. WINES FOR  
CHEMISTS.  
S.V.R.****A. MACNAIR & CO.**Dolphin Distillery  
Ardwick, MANCHESTER**ROYAL COURT HAIR DYES**

Notwithstanding the shortage of supplies, we are still in a position to supply all orders and guarantee our preparation to be exactly the same as pre-war recipes. Own-named brands a speciality. Largest profit, and most reliable Hair Dye yet produced.

**J. KNOX WALKER & Co. Ltd., 422 Kingsland Rd., London, E. 8.***Lepto* advertised 9d. P.A.T.A. 9d.  
5/3 dozen.

WOULD you like a show that incurred no risk and sold this line NOW? That's the interesting proposition we should like to tell you about if we may.

**CHRISTYS, OLD SWAN LANE, E.C.****FILTER CLOTH****SAMUEL HILL, Ltd.**

Hunters Lane, ROCHDALE.

Manufacturers for all purposes.

**COTTON, WOOLLEN and LINEN.**

Telegraphic Address "Filtering Rochdale." Telephone No.: 956 Rochdale.



Antiseptic.



Absorbent.

“ **CYNTELL** ” Registered  
**HYGIENIC TOWEL LINES**  
 FOR LADIES

SEAMLESS KNITTED  
 ELASTIC COVER.

UNEQUALLED  
 FOR COMFORT

**GUARANTEED ENGLISH MANUFACTURE THROUGHOUT**

*Approved and recommended by the Medical Faculty*

**IN PACKETS of 1 DOZEN**

Size No. 1.....per gross Towels.....	12/-	.....To retail at	1/3	per packet
Size No. 2.....per gross Towels.....	16/10	.....	1/9	”
Size No. 3.....per gross Towels.....	21/7	.....	2/3	”
Size No. 4.....per gross Towels.....	26/5	.....	2/9	”

Size No. 4 suitable for Accouchements

Sizes Nos. 1 & 2 in packets of ½ dozen at extra cost of 6d. per gross Towels

” ” 3 & 4 ” ” ” ” ” 1/- ” ”

The Most Comfortable of all Ladies' Towels.

**THE CYNTA MANUFACTURING COMPY.**  
**St. Thomas' Place,**  
**STOCKPORT.**

# VIKING CHEESE RENNET

COMMANDS THE LARGEST SALE IN THE BRITISH EMPIRE.

Viking Rennet is guaranteed to be made from Calf Vells only, and does not contain Pepsin or other substitute.

Note our Prices for Pure Rennet in comparison with other coagulates.

WHOLESALE.					RETAIL.				
31/-	per	gallon tin	...	...	36/-	per	gallon tin	...	...
16/6	"	$\frac{1}{2}$ -gallon tin	...	...	19/-	"	$\frac{1}{2}$ -gallon tin	...	...
8/3	"	quart jar	...	...	9/9	"	quart jar	...	...
4/3	"	pint jar	...	...	5/-	"	pint jar	...	...
2/3	"	$\frac{1}{2}$ -pint jar	...	...	2/9	"	$\frac{1}{2}$ -pint jar	...	...

These prices include containers and carriage paid. Awarded Silver Medal by the British Dairy Farmers' Association. VIKING ESSENCE OF RENNET, JUNKET TABLETS AND POWDER. Prices on application.

Sole Manufacturers: **THE VIKING RENNET CO. Ltd., 19 Clapton Square, London, E. 5.**

## GLASS BOTTLES & GLASSWARE

OF ALL DESCRIPTIONS.

Buyers in India, Australia, South Africa, and the Far East should send samples (two of each) and quantities required for quotations to

**J. L. THOMPSON & CO., P.O. Box 22, KOBE, JAPAN.**

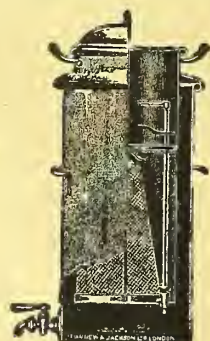
Cable Address: "FRANKLIN KOBE."

FULLY ILLUSTRATED CATALOGUE OF SURGICAL INSTRUMENTS SENT  
POST FREE ON APPLICATION.

## "TOWER" ASBESTOS FILTERS.

For the clarification of

PHARMACEUTICAL PREPARATIONS



with the "FARJAK"  
Filtering Mediums,  
Pure, Neutral and  
Specially Graded.

Also Filters with  
Earthenware Casing  
and internal Fittings  
entirely free from  
metal.

Filling, Corking, Capsuling Machines, &c.

**FARROW & JACKSON**

ESTABLISHED 1798

LTD.

Engineers to the Bottling and Mineral Water Trades,

16 GREAT TOWER STREET, LONDON, E.C. 3.

We offer

# WAXES

## PETRO. JELLY

## LIQUID PARAFFIN

B.P.

## WHITE OILS

Send us your inquiries.

**J. J. FRANCES & SONS,**  
LIMITED,

80a Southwark St., LONDON, S.E. 1.



# For the **ATTENTION** of the **DISCRIMINATING CHEMIST**

**LABELS  
IN BLACK  
AND COLOUR,  
BANDS,  
SEALS,  
ETC.**

**T**HE Distinctive Quality of  
our Printing & Stationery  
for Chemists & Druggists  
has received universal  
approval for more than  
— 90 YEARS. —

**DESIGNS  
FOR  
PERFUMERY  
AND ALL OTHER  
FANCY  
PREPARATIONS.**

## **SUTTLEY & SILVERLOCK, LIM<sup>D</sup>**

**CHEMISTS & GENERAL LABEL PRINTERS,  
BLACKFRIARS, LONDON, S.E.**

### **"J. GREEN" BRITISH MADE FILTER PAPERS**

CORRESPONDING TO THE GERMAN  
Nos. 595, 597, 598, 602, 604, etc.  
ALSO

**Double Washed Ashless Filters**

to replace the German make  
(Weight of ash of 12.5 cm. circle = .00026 gr.)  
described in our list as

**J. Green Ashless No. 2.**

**SOXHLET THIMBLES,  
FOLDED FILTER CIRCLES, &c.**

For Samples and Prices apply to  
any of the leading Laboratory  
Furnishers.

Makers—

**J. BARCHAM GREEN & SON,  
HAYLE MILL, Maidstone, ENGLAND.**

### **"FLYBANE" W.D.O.**

For industrial purposes.

### **"VERMIJELLI LIQUID"**

For manure heaps. Kills maggots before  
the flies come into existence.

### **"GARDEN WASH"**

A simple wash for growing plants.

Manufactured  
by **S. BOWLEY & SON**  
Wellington Works, Battersea Bridge, S.W. 11.

**USE UNSKILLED LABOUR, DO WORK  
QUICKER, SAVE LABOUR.**

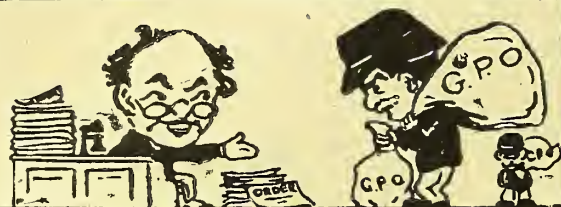
## **Labour-Saving Machinery**

**FOR GLASS BOTTLE FILLING,  
JAR FILLING, SHALLOW TIN FILLING,  
FLASK, CAN AND DRUM FILLING.**

Machines for filling all liquids and semi-liquids in any shape  
or size of receptacle. Write for particulars.

**Roberts' Patent Filling Machine Co.  
BOLTON.**

Labour-Saving Machinery, in comparison to what it can  
save, NEVER COST SO LITTLE AS NOW.



"More orders! The result of F. A. Degen's live wire advertising."

Why don't YOU advertise with THE RIGHT AD. MATTER before your competitor does. Let me prepare smart, suggestive folder NOW!

Extract from old client's letter: "I have decided to proceed with advertising as before."

He and hundreds of others have succeeded by using my advertising. WHY NOT DO LIKEWISE? Send for terms and free book, "BUSINESS BY POST."

F. A. DEGEN, F.I.S.A.C., Mail Order Specialist for Chemists & Druggists, c/o the "C. & D.," 42 Cannon Street, London, E.C. 4.

## ELT'S COLLEGE

North Finchley, N. 12.

### 'HALL' EXAM.

The next Full-Time Class for Women Students will commence in September.

### A SPECIAL CLASS

for 'Hall' and Minor will also commence in September, on Thursdays, from 3 o'clock to 7 o'clock.

As the Laboratories have been full during the last two years, students are asked to send in their names early to ensure accommodation.

# WESTMINSTER COLLEGE.

Principals: G. S. V. WILLS, Ph C. (Founder) : P. H. WOODNOTH, M.P.S.

Phone: BRIXTON 1728.

Minor Half-Term, May 15, 1918, for JULY Examination—Fee, £5 5  
Full Course for Apothecaries' Hall Examination commenced May 1, 1918

## A SPECIAL CLASS IS HELD EVERY THURSDAY AFTERNOON

from 3 to 5 p.m. for instruction in Qualitative and Volumetric Analysis.

**Fee: Three Months — One Guinea.**

For Prospectus, &c., Call, Write or Phone THE PRINCIPALS, 190 Clapham Road, LONDON. S.W. 9.

## LONDON COLLEGE OF PHARMACY

Principal - - - HENRY WOOTTON, B.Sc. (Lond.)

ENTRIES CAN NOW BE RECEIVED FOR THE FOLLOWING COURSES:

**MINOR COURSE - Beginning April 10**

**APOTHECARIES' HALL COURSE - May 1**

*Separate Class Rooms & Museum for Lady Students.*

The number of Students who have passed the Pharmaceutical Examinations from the London College since its establishment exceeds that from any other school.

For Prospectus, &c., apply to the Principal,  
London College of Chemistry and Pharmacy, 361 Clapham Road, London, S.W. 9.

## The Postal System of Tuition

OF THE

## CHESTER & NORTH WALES COLLEGE OF PHARMACY

IS NOW COMPLETED.

This is an entirely new series of papers, and supersedes every other pharmaceutical postal course offered. We guarantee its efficiency. It makes the student think.

MAJOR. MINOR. APOTH. HALL.

*Details on application to*

Sec., College of Pharmacy, Hoole, Chester.

## THE South of England College of Pharmacy

(Concilio et laboris)

186 CLAPHAM ROAD, LONDON, S.W.

Principal—H. LUCAS, Ph.C., F.C.S.

### THE COLLEGE FOR SUCCESS!

This College provides systematic training in Pharmacy, Chemistry and Botany, and the Allied Sciences, and prepares Students (ladies and gentlemen) for the Major and Minor Examinations of the Pharmaceutical Society and for the Assistants' Examination of the Society of Apothecaries.

For all particulars regarding NEW COURSES OF  
STUDY for Day and Evening Classes, a ply to  
THE PRINCIPAL.



### Pocket Lamp REFILLS

We can supply a limited number of these of first-class quality, guaranteed till March 1919, at a low price for immediate purchase. Further particulars from—

ARCHIBALD J. WRIGHT, LTD.  
61 Eden Grove, Holloway, London, N. 7

## T. SHERBORNE & CO. Surgical Appliance Manufacturers.

Manufacturers of the "Stowaway" Suspensory Bandages, Cotton or Silk, and over 100 other patterns. (Wholesale only.)

Phone No. SYDENHAM 517. Honor Oak Park, S.E. 23.



**F. DARTON & CO. MANUFACTURING OPTICIANS,****CLERKENWELL OPTICAL WORKS,****142 ST. JOHN STREET, and 52 CLERKENWELL ROAD.**

Telephone No.: 1801 CENTRAL.

Telegrams: "EXCEPTIONAL LONDON."

---

**LENSES****FOR ALL KINDS OF MAGNIFIERS, especially those used for Medical, Dental and Ophthalmic purposes.****We have just completed the furnishing of our factory with up-to-date machinery for the rapid and accurate manufacture of the above, and can guarantee a promptness in delivery second to none of any quantity.****We invite inquiries for quotations and samples.**

---

**PRESCRIPTION AND REPAIR DEPARTMENT.****In this most necessary branch of our business we have the latest improved electrical machinery. A special staff of experienced workmen entirely devoted to the execution of Repairs and dispensing of Oculists' Prescriptions enables us to dispatch all commissions by return mail.**

Tels.: "Ideas Leeds."

'Phone: 1635

**ALF. HARRISON & SONS****General Printers,****224 Burley Road, Leeds,****Are the people you require to execute your orders promptly and in first-class style.**

♦♦

**ENVELOPES & FOLDING BOXES****A SPECIALITY.**

♦♦

**We shall be pleased to quote for your requirements.****A  
PHILIP JOSEPHS  
& SONS LTD.****SHOWCASE  
QUICKLY EARNS  
ITS COST.**

---

***Try One!***

---

**93 OLD ST., LONDON, E.C.1.****Phone—9057 London Wall. Wires—"Josiphiah London."**

By Royal Warrant of Appointment  
to H.M. The King.



By Royal Warrant of Appointment  
to H.M. The King.

Only  
**ONE**  
Address.

**DAY & SONS,** ESTABLISHED 1840.  
**CREWE. LTD.** (CREWE)  
HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only  
**ONE**  
Address.

**LARGEST SALE IN THE WORLD.**



### DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Condition in all Stock.

Price 1/8 per bottle

### DAY'S HUSKOLEIN

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle

### DAY'S ZOMO-SAL

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

### DAY'S RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.

The Ewe Drench for Ewes, 3/6 per doz.

### DAY'S OILS

(THE PURIFIED DRIFFIELD OILS)

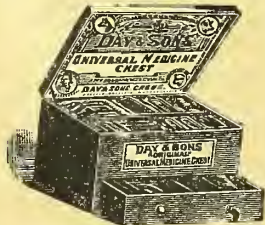
Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

### DAY'S WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

2/6 and 6/- per bottle.



### DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., £5, and £10 10s. ; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest illustrated is similar to that at £5 and £2 4s.

Great Specialities.

ONLY GENUINE FROM  
**DAY & SONS, CREWE, LTD.,**  
**CREWE, ENGLAND.**

LIBERAL TERMS FOR FOREIGN BUYERS.



**WHOLESALE PRICES OF PHOSFERINE.****CASH WITH ORDER.**

1/1½ size Phosferine ...	11/6 per dozen net.
2/9 " " " " " "	28/- " " " "
4/6 " " " " " "	46/- " " " "

5 GROSS LOTS (assorted sizes if required) subject to 1½ per cent. Cash Discount.  
 10 GROSS LOTS (assorted sizes if required) subject to 2½ per cent. Cash Discount.

**PROTECTED PRICE.**

The selling price of Phosferine is Protected, it must not be retailed in the United Kingdom under the following prices, viz.:—1/1½, 2/9, and 4/6.

# PHOSFERINE

**The Greatest of all Tonics**

Is a good paying line for Chemists—the Retail price is protected, and as it contains nothing poisonous, it can be sold without restriction.

Being a highly Concentrated Medicine, its storage occupies very little of the valuable space in a Pharmacy.

It is one of the largest advertised medicines in the kingdom, and sells freely.

It can be recommended with the greatest confidence for all Nerve Pains, Nervous Disorders, Rheumatism, Nervous Headache, Dyspepsia, General Debility, etc.

**ROYAL COMMANDS.**

PHOSFERINE has been supplied by Command to

Members of the British Royal Family,  
 H.I.M. The Empress of Russia,  
 H.M. The King of Greece,  
 H.I.M. The Dowager Empress of Russia,  
 H.M. The Queen of Roumania,  
 &c., &c.,

A recommendation that can be claimed for no other Proprietary Medicine.

**ASHTON & PARSONS, Ltd.**

La Belle Sauvage, Ludgate Hill,  
 LONDON, E.C. 4.

**CAUTION.**

To Imitators or Dealers in Imitations of

# PHOSFERINE

**PERPETUAL INJUNCTION**

WITH

**DAMAGES AND COSTS,**

obtained against the Vendor for using  
 the word

**PHOSFERQUIN.**

In the High Court of Justice.

CHANCERY DIVISION.

Before Mr. JUSTICE COZENS-HARDY.

Between ASHTON & PARSONS, LIMITED,  
 Proprietors of "Phosferine" (Plaintiffs),  
 AND

THE VENDOR OF PHOSFERQUIN (Defendant).

A PERPETUAL INJUNCTION with damages and costs was granted on the 14th December, 1900, restraining the above Defendant, his servants and agents from in any manner infringing the Plaintiffs' Registered Trade Mark 6,530, and from selling or offering or exposing or advertising for sale or procuring to be sold any medical preparation not prepared by the Plaintiffs, under the name of "Phosferine" or under any other name which by colourable imitation of the Plaintiffs' word "Phosferine" or otherwise was calculated to represent or lead to the belief that such preparation is "Phosferine" or is a preparation of the Plaintiffs and from selling or supplying any such preparation as aforesaid in response to orders for "Phosferine" or for a preparation of the Plaintiffs or from otherwise passing off or enabling or assisting others to pass off any such preparation as aforesaid as or for "Phosferine" or a preparation of the Plaintiffs.

All information relating to the infringement of dealers in infringements of "Phosferine" will be confidentially treated and should be addressed to the proprietors of "Phosferine."

**ASHTON & PARSONS, Ltd.**

La Belle Sauvage, Ludgate Hill,  
 LONDON, E.C. 4.

Or to Messrs. J. E. EVANS-JACKSON & CO.,  
 Patent Agents,  
 Bristol House, Holborn Viaduct, E.C. 1.



Hours of  
Business:  
8.30 a.m.  
to 1.0 p.m.  
2.0 p.m.  
to 5.0 p.m.  
Saturday:  
8.30 a.m.  
to 1.0 p.m.  
only.

**Sangers**  
258 Euston Road,  
LONDON, N.W. 1.

Telephone:  
Inquiry—  
Museum  
962.  
Orders—  
Museum  
700 to 704  
(5 lines).

## SERVICE.

*HELP*, if you prefer the word, for that is what we have concentrated upon during these years of war. We have striven to *HELP* everyone of our customers to keep pace with the ever-changing market.

And we are proud of the fact that we are the house dealing in Chemists' Sundries and Proprietary Articles that has continued to issue a Monthly List of Price Alterations.

When you consider that paper alone is up in price 500 %, and that the average number of price alterations per month for the last three years works out at about 600, you get some idea of what that *HELP* has cost.

For the benefit of our old friends we trust we shall be able to continue to *HELP*—we shall do our utmost—but until the brighter days come we regret we cannot post our List to other than our regular customers.

When that good time "after the war" does come, we hope to see every chemist in the kingdom on our mailing list. It will pay you to be there as surely as it has paid your competitor.







# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MAY 4, 1918

This Supplement is inserted in every number of The Chemist and Druggist.

## CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, N.W. (Main Thoroughfare).—Good-class Business; Retail and Dispensing; net profit exceeds £500; well-appointed shop, nicely fitted and fully stocked; valuation terms would be considered, or lump sum offer.

2.—LONDON, S.W.—Good-class Business, Retail and Dispensing; excellent position; returns last year exceeded £1,300; net profit £340; commodious residence with private entrance; new lease; price about £900.

3.—STRATFORD.—For immediate disposal, through Vendor being called up for military service, Ready-money Business, with N.H.I. Dispensing; no near opposition; net income over £300 yearly; moderate rental; valuation terms entertained.

4.—LONDON, S.E.—For immediate disposal, Ready-money Retail; returns average over £500 per annum; net profit £250; comfortable residence; rent £46, on lease; no near opposition; price £250, or near offer.

5.—BANKS OF THE THAMES.—Very old-established Business; held by vendor many years, now retiring; returns about £1,100; profits above the average; first reasonable offer will be accepted.

6.—KENT (Within Easy Distance of Town).—Good middle-class Business; returns about £1,500; net profit £360; price, to include £90 book debts, £750; part payment.

7.—KING'S CROSS (Within East Distance of).—Old-established Business in good position in populous district; the net income is £386, and under energetic management can be increased; good house; rent £50; price £600.

8.—SOUTH COAST (Death Vacancy).—Well-established Business; no near opposition; returns £900 at fair prices; modern residence with large garden; private entrance; price about £300.

9.—KENT.—Very old-established Business; position good; returns last year £949; net profit £240; roomy shop, fitted in mahogany; rent £42 10s., which includes comfortable residence and garden; terms, valuation of stock and fixtures.

10.—WOODFORD.—Good, middle-class Business, chiefly ready money; returns, present rate, exceed £800; profits above the average; comfortable residence with large garden; rent £25; no near opposition; price £500, or near offer.

11.—SOUTH COAST.—Retail Dispensing and Photographic; all good middle-class trading; returns over £2,500; terms, goodwill and fixtures, £300; stock by valuation.

12.—MIDLANDS.—Vendor retiring; good-class Dispensing and Retail Business; excellent situation; returns exceed £2,000 yearly; well-appointed shop and good residence; valuation terms entertained; books properly kept and periodical stocktaking.

13.—HOME COUNTY (Health Resort).—Modern Pharmacy, situate in the principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

14.—SOUTHERN COUNTY.—Very old-established Business, situate in busy shopping thoroughfare, and producing a net income of about £700 per annum; further details on application.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

## BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

**BIRKENHEAD.**—Light Retail and Dispensing; well-stocked and fitted; owner selling through ill-health; valuation of stock and fixtures. Apply 120/18, Office of this Paper.

**LONDON.**—A genuine old-established Business for disposal; Light Retail and Dispensing; shop fitted in mahogany; well-stocked; books kept; net profit £250; good opportunity for anyone with small capital, as owing to illness must be sold; half purchase money could be paid in instalments. Apply 124/24, Office of this Paper.

**LONDON, S.W.**—Drug Stores; sound concern; nice shop; convenient house; small garden; side entrance; returns £850; good average profits; rent £52; sublet £16; sacrifice through indifferent health; valuation, stock, fixtures only; 200 for quick sale, or could reduce stock; no Photo, Optics, N.H.I.; books and invoices kept. Apply 123/5, Office of this Paper.

**LONDON, N.**—Shop, d.f. Chemist's; completely and well fitted; established over 20 years; chance to pick up good business cheap; rent £60. Owner, 160 Stoke Newington Road, N.

**LONDON, W.**—Sound, old-established business; somewhat neglected through other interests; well stocked, returns about £800; could be doubled by energetic man making most of opportunities; exemption practically certain for middle-aged proprietor; good accommodation; house could be let off; fully insured; £300 for quick sale. Apply 123/9, Office of this Paper.

**NEVIN, NORTH WALES.**—Dispensing Chemist, Family, Photographic, etc.; takings £500 (might be doubled by pushing); corner shop and house, 3 bedrooms, 3 living rooms, 2 large cellars, 2 attics, 2 lofts, and small handy yard; seaside resort, most bracing beautiful country; 7 miles from railway station (Pwllheli), regular motor-bus conveyance, etc., from station. Apply to W. G. Williams, The Pharmacy, Port Dinorwic.

**NORTHERN COUNTY.**—Well-established, with good opening for Photographic, N.H.I., and Dentistry, double-fronted Shop; side and back entrance; large house, recently redecorated; Warehouse and garden; death cause of sale; rent £50; sacrifice for quick sale, £160; well stocked. Apply 122/9, Office of this Paper.

**YORK.**—For immediate disposal, the old-established Business of the late Mr. J. Sowray, Chemist and Druggist; unique corner stand in busy thoroughfare, commanding six different streets; returns about £800 under management; good opening for Photographic, Dental, etc. Apply W. Sowray, 57 Petergate, York.



# BERDOE & FISH

**VALUERS & TRANSFER AGENTS,**

**35 Jewry Street, Fenchurch Street, E.C.3.**

Telephone: 1809 CENTRAL.

## NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—First-class Retail and Dispensing Business, in splendid position; same hands many years, retiring; returns approach £900; stands to do £1,500 easily; price simply valuation, or first reasonable offer; part can remain.

2.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; good house, bathroom, etc.; very best position; well stocked; price for prompt sale, simply valuation, under £400.

3.—LEICESTERSHIRE.—Sound Cash Drug Store in small town; returns average £650; net profit £200; good house and Pharmacy, well stocked; price £300 or valuation.

4.—HAMPSHIRE COAST.—Good-class Retail Dispensing and Photographic Business, in fashionable resort; returns approach £2,000; main road position; well-fitted Pharmacy, with residence attached; price £100 and valuation, in all about £900.

5.—LONDON, S.W.—Good-class Retail and Dispensing Business, in fine position, close to busy station; returns £1,000; no panel; clear net profit over £300; books properly kept; scope for increase, owner retiring; price for early sale, £500; part could remain; strongly recommended.

6.—LONDON (Western Suburb).—Light Cash Retail and Dispensing, with Photographic; busy main road; returns over £2,000, increasing; low rent; long lease; corner premises; well stocked; owner retiring; price £800 or valuation.

7.—ESSEX (Suburb).—Cash Drug Stores, returning £17 to £18 a week under unqualified; clear net profit £7 a week; low rent; modern shop, well stocked; price £75 and valuation.

8.—LONDON SUBURB, S.E.—Cash Drug Stores, in good position; plenty of scope; returns £500; net profit £220; books properly kept; low rent; corner shop; good house; well stocked; price £250.

## STOCKTAKINGS.

We are now booking stocktakings for June, and are open to undertake one or two large ones during that month. Appointments should be made early to avoid dates clashing. Terms sent on application.

## Messrs. TOPLIS & HARDING

**AUCTIONEERS (Estab. 1790),**

Beg to announce that their next

**SALE BY AUCTION**

— OF —

## Chemicals, Drugs

**CHEMISTS' & DRUGGISTS' SUNDRIES  
& DRYSALTERY GENERALLY**

will take place at the

LONDON COMMERCIAL SALE ROOMS, E.C.,

On WEDNESDAY, MAY 22, 1918.

**NOTE.—Saleable Stocks of any description may be included if immediate notice be given to the Auctioneers.**

Catalogues and terms may be obtained upon application to the AUCTIONEER'S OFFICES, 27/28 Old Jewry, E.C.; and at Manchester.

Telephone—City 8217. Telegrams—"Toplis, London."

## PARSON C. BAKER

(Pharmaceutical Chemist),

**Trade Valuer & Transfer Agent.**

Recommended by The British Drug Houses, Ltd.; Messrs. Meggeson & Co.; Barclay & Sons, Ltd.

Valuer to the Association of Manufacturing Chemists.

**74 High Street, WALLINGFORD, Berks.**

## BUSINESSES FOR DISPOSAL (continued).

**D**RUG Stores and Teeth, Woolwich, for Sale; cheap; good position; owner called up. 32 Plumstead Road, S.E. 18.

**O**LD-ESTABLISHED Dental Practice for Sale in consequence of age retirement; highly suitable for basis of limited Dental Company. Write "Dental," c/o Goulds, 54 New Oxford Street, W.C. 1.

**O**NE or both of two small country Businesses (Lancashire); panel; old-established. Apply 122/16, Office of this Paper.

## BUSINESSES WANTED.

**A** SOUND Business wanted, showing £400 net, with scope for increase in energetic hands; healthy neighbourhood essential; Home Counties or near preferred. Write "M.P.S." (122/27), Office of this Paper.

**A**DVERTISER wishes to purchase a sound Business in good shopping locality; Lancs or Cheshire district; small town not objected to; a concern requiring the services of one or two Assistants preferred. Apply 120/27, Office of this Paper.

**P**HARMACIST, with small capital in hand, wants good Business, showing good returns, on following terms: £50 deposit, and at least £4 weekly instalments and 5 per cent. interest on the money; London or near; to be genuine, business could remain in hands of seller until payments completed. Apply "Confidential" (120/19), Office of this Paper.

## SALES BY AUCTION.

TO CHEMISTS, DRUGGISTS, DEALERS, AND OTHERS.

**M**R. J. BODDY has been instructed by Alderman John Harrison, Chemist, who is declining business, to Sell by Auction, on the premises, 33 Bridge Street, Sunderland, on WEDNESDAY and THURSDAY, 8th and 9th MAY, 1918, the STOCK-IN-TRADE, comprising Drugs, Chemicals, Surgical Appliances, Sundry Domestic Requirements, Descriptive China Jars with Lids, and Glass Stopped Bottles and others, 8 cwt. Stage Weighing Machine (by Pooley), Brass Scales, Tanks, Bent-top Glass Counter and other Show Cases, four excellent Mahogany Counters, a fine lot of Fixtures, with Glazed Show Wall Cases, Nests of Drawers and Shelving, also a quantity of Trade Requisites.

Further particulars see "Sunderland Daily Echo" on Saturday, 4th May.

Sale each day at 11 a.m.

Sale Offices, St. Thomas' Chambers, 59 Frederick Street, Sunderland. (Tel. 641.)

## FOR SALE.

**F**OR Sale, 5-grain Pill Machine; Lancaster's 1-plate Instantograph, with five dark slides; No. 2 Autograph Folding "Brownie" Camera; three 2-gall. pear-shaped Carboys; 1 gross (about) 1 oz. Printed Insect Powder Tins (sample 1½d.); 30 in. Counter Case, bent glass (cracked). Offers to or seen at Williams's, 91 Hoxton Street, N. 1.

**M**EDICAL Battery complete, 150 Medical Slides, 7 years' "Chemical Society Journals." What offers? Also about 4 oz. each various fine Chemicals. Lloyd, Broad Street House, E.C.

## FINANCIAL.

EXTENSION OF BRITISH INDUSTRIES.

**M**ESSRS. JAMES MORLANDS & CO., LTD., 24 Haymarket, S.W. 1, are prepared to introduce Partners or Directors with Capital into businesses of first-class character, where there are openings for new blood and extensions. Only businesses where every investigation is allowed will be considered. Those desiring to sell sound businesses outright are also invited to communicate with us. All communications will be treated in strictest confidence.



## AGENCIES.

**CHEMIST'S Traveller**, ineligible, with reliable references and connection in Manchester district, also Lancashire and Cheshire, is open for an engagement. Apply 123/15, Office of this Paper.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

### RETAIL.

**BIRMINGHAM.**—Smart man, capable of taking charge of Buying Department, required immediately. Give full particulars as to age, experience, and salary required in first letter, "T. H. S." (120/250), Office of this Paper.

**BIRMINGHAM.**—Lady Assistant required (immediately) for progressive business, near the centre of the city; must be a good Dispenser. State salary required and when at liberty, "B. S." (120/25), Office of this Paper.

**BRIGHTON.**—Outdoor Assistant required for Retail and Dispensing, etc.; lady or gentleman; used to quick work; unqualified, or with A.H. certificate in the lady's case. State full particulars to Savage & Co., Pharmaceutical Chemists, Brighton.

**BRIGHTON (outdoors).**—Assistant required (at once); Dispensing and Retail; easy hours. Apply with full particulars, and photo if possible, J. Colby & Co., 101 Western Road, Brighton.

**BROADSTAIRS.**—A competent Assistant required; ineligible for military service; must be a reliable Dispenser. State age, salary (outdoors), and full particulars, Julian Horrell & Son, Dispensing Chemists, The Pharmacy, Broadstairs.

**CAMBRIDGE.**—Capable lady Assistant required; must be quick, accurate, and used to first-class Dispensing; thoroughly reliable; comfortable berth; easy hours; outdoors. Full particulars to G. Peck & Son, Pharmaceutical Chemists, Cambridge.

**CHEPSTOW.**—Capable lady or gentleman Assistant required for Light Retail and Dispensing; if gentleman (ineligible); knowledge of Optics essential; easy hours; outdoors. Full particulars to Clarke, Chemist, Chepstow.

**GLOUCESTERSHIRE.**—Assistant Dispenser wanted (at once); Hall certificate; no Counter work; willing to attend to various clerical duties when not required at the Dispensing Counter; no previous experience needed; in reply state salary required. Apply 115/25, Office of this Paper.

**ILFRACOMBE.**—Wanted, unqualified Assistant, lady or gentleman, indoors or outdoors, for a Light Retail and Dispensing business, with a knowledge of Photography. Apply, with full particulars, salary required, experience, etc., to W. Moon, 2 High Street, Ilfracombe.

**KENT.**—Wanted, lady Assistant (outdoors) with Counter experience; short hours, Wednesday half-day, no Sunday duty. Apply, with full particulars as to experience and salary required, to J. W. Hoyle, Southborough, Tunbridge Wells.

**KINGSTON-ON-THAMES.**—Lady Dispensing and assist occasionally at Counter; hours 8.30 to 8 p.m., half-holiday, no Sunday duty. Tamplin & Son, 19 Eden Street, Kingston-on-Thames.

**LIVERPOOL (HEALTHY SUBURB).**—Qualified lady or ineligible (end of May); good-class Dispensing; easy hours. State salary, etc., "V. S.", c/o Ayrton, Saunders & Co., Liverpool.

**LONDON, N.E.**—Outdoor Assistant: lady or gentleman; Counter, Dispensing, etc.; unqualified. Write, stating age, experience, and salary required, "Xylo" (122/7), Office of this Paper.

**LONDON, N.W.**—Assistant wanted: Junior; outdoors; two kept; excellent experience to be had in Dispensing and Retail. Apply by letter, giving particulars, "Aspirin" (120/22), Office of this Paper.

**LONDON, N.W. (HAMPSTEAD).**—Wanted, Junior Assistant for Dispensing business; discharged man or one in low medical grade; lady would suit if possessing some experience. Please write, giving usual particulars and stating salary required, to Mr. Amos, 31 Heath Street, Hampstead, N.W. 3.

**LONDON, N.W.**—Qualified Assistant wanted for evenings; man or woman; furnished house; suit Hospital Dispenser. Apply 122/4, Office of this Paper.

**LONDON, S.W.**—Competent Assistant wanted; must be a good Dispenser; whole time if possible. Please state particulars of experience, when disengaged, and salary required, Amon, Chemist, 436 Streatham Common, S.W. 16.

**LONDON, S.W.**—Locum, qualified, for Whitsun week; middle-class business; light Dispensing. Please state particulars of experience, references, and salary required, Goodall, 66 Lower Richmond Road, Putney.

**LONDON, S.W.**—Wanted, smart lady Assistant for Patents, Sundries, and Perfumery, and some knowledge of ordinary Drugs; short hours. Full particulars of experience, salary required, etc., 70/8, Office of this Paper.

**LONDON, W.**—Required, an experienced, energetic Senior about 35; must be of good appearance and address, and a first-rate Counter man; outdoors; permanency; qualification unnecessary provided otherwise competent. W. V. Wright, 25 Broadway, Hammersmith.

**METROPOLITAN HOSPITAL, KINGSLAND ROAD, E. 8.**—Applications are invited for the post of Assistant at a Special Tuberculosis Department of a qualified lady Dispenser, who will be required also to act as Clerk to the Medical Officer; proficiency in typewriting and shorthand will be a strong recommendation. Applications (by letter only in own handwriting), with copies of testimonials and salary required, should be addressed to the undersigned, J. Courtney Buchanan, Secretary and House Governor.

**NEAR MANCHESTER.**—Lady Assistant required for Retail and Dispensing business; previous Counter experience absolutely necessary. Address, stating age, experience, salary, etc., to 120/26, Office of this Paper.

**NORFOLK.**—Wanted (immediately), in Light Retail and Dispensing Business, a good qualified Assistant (discharged man or one in low medical grade); either temporary or permanent; must be well recommended; easy hours, no Sunday duty; good salary offered. Apply, with full particulars in first letter, and I will wire reply, Aspland, Thetford.

**NORTH LONSDALE HOSPITAL, BARROW-IN-FURNESS.**—Wanted (immediately), for the duration of the war, qualified Dispenser and Bookkeeper (either sex; males to be ineligible for active service). Applications, stating age, qualifications and salary required, and accompanied by copies of two recent testimonials, to be sent to the Secretary.

**NORTH OF ENGLAND.**—Unqualified Assistant wanted; ineligible or discharged. State age, reference, and salary, 124/20, Office of this Paper.

**NORTH WALES COAST.**—Qualified Manager; ineligible; active; Photo, Optics essential; references strictly investigated; permanency; house adjoining. Full particulars and salary required, first letter, Mellings, Conway, N. Wales.

**SOUTH LONDON SUBURB.**—Assistant wanted, qualified preferred; lady or gentleman; must be accurate Dispenser, and capable of taking charge in absence of proprietor; end of May. Apply, giving references, salary required, etc., to 120/9, Office of this paper.

**SOUTH OF ENGLAND.**—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

**SURREY (not an air-raid district).**—Young lady Assistant required; Dispensing and Light Retail; high-class business; permanency; apartments found. "Surrey" (120/251), Office of this Paper.

**WORCESTER.**—Qualified Assistant for Dispensing Counter (lady or gentleman); easy hours, no Sunday duty. Please state full particulars, salary (outdoors), to E. J. Kiteon, City Drug Stores, Worcester.

**WORCESTER.**—Assistant required, principally for Front Counter work. Give full particulars as to experience, age, height, references, and salary required, Anderson & Virgo, Chemists, Worcester.

**APOTHECARIES' HALL, BLACKFRIARS.**—Qualified Minor Dispenser wanted; lady or gentleman.

**ASSISTANT**, lady or gentleman, for Counter, Window-dressing, and General Retail, etc.; no Wednesday evening or Sunday duty. Apply S. V. Brook, M.P.S., 155 Lavender Hill, London, S.W. 11.

**ASSISTANT**; lady; must be a competent Dispenser. Apply, giving full particulars of experience, salary required, and when disengaged, to Mr. Reid, 2 Queen Street, Exeter.

**AT once**, an Assistant to manage small Branch; outdoors; moderate hours. Apply, stating age, experience, salary required, references, to 121/10, Office of this Paper.

**DISPENSER** wanted: West Midlands; ineligible man or lady; used to Retail business; must be good writer and reliable; outdoors; state salary required and references. Apply 122/29, Office of this Paper.

**GOOD Window-dresser** wanted, to dress several windows daily; salary and commission. Apply Tozana Perfumery Co., Ltd., 257 Gray's Inn Road, London, W.C.

**IMMEDIATELY**, unqualified Assistant; Dispensing and Counter experience essential. Usual particulars to Glaisyer & Kemp, 11/12 North Street, Brighton.



**JUNIOR** or Improver required (outdoors) for good-class Retail and Dispensing business; lady or gentleman. S. W. Dawson, 56 Knight's Hill, West Norwood, S.E. 27.

**LADY** Assistant wanted; Hall qualification, or experienced in Dispensing; three employed; hours 9 to 7, Saturdays 8 o'clock, Thursdays 1 o'clock, no Sunday duty; outdoors. Shields & Warren, St. Albans.

**LADY** Dispenser required for Netherne Asylum, Merstham, Surrey; some clerical duties. Apply, stating salary required and furnishing copies of two testimonials, to the Medical Superintendent.

**LADY** Assistant wanted; Dispenser; good-class business; South Coast. Apply, with particulars and references, to W. Aston, Pharmaceutical Chemist, 27 Montague Street, Worthing.

**LADY** (Minor qualification) wanted for Dispensing; two other lady Assistants kept; Retail experience not essential, but can be acquired if desired. Lloyd, 323 Coventry Road, Birmingham.

**LADY** Pharmacist required, either as locum or permanently, to L. manage, with the assistance of two experienced ladies, a main Retail business; work in no ways strenuous; short business hours and no Sunday duty. State age, experience, and salary required to F. A. Moore, Pharmacist, Gravesend.

**LADY** Assistant wanted, principally for Dispensing, in nice-class country business. Please state when at liberty, salary required, and fullest particulars in first letter, Hawley, Chemist, Winchcombe, Glos.

**LADY** Assistant (qualified preferred), with good experience of a Chemist's business; must be a reliable Dispenser; outdoors. Full particulars to Hampton, Northgate Street, Gloucester.

**LADY** Assistant; qualified, also one unqualified; Counter and Dispensing; good-class business; South Coast town (not Southsea). Apply, with particulars and references, to "Aspirin," 92 Palmerston Road, Southsea.

**MANAGER** (qualified) for high-class Chemist's shop in Midlands; good prospects for suitable person. State salary required, without board or lodging; give previous experience. Apply 120/15, Office of this Paper.

**MESSRS. TIMOTHY WHITE CO., LTD.**, Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

**QUALIFIED** Manager (ineligible), chiefly for N.H.I. Dispensing and Retail. Give full particulars, stating salary (indoors), Eato, 57 Forest Lane, Stratford.

**QUALIFIED** Manager (outdoors) required in riverside town for good-class Retail, Dispensing, and Photographic business; must be a good Counterman and Prescriber, and understand the Agricultural side. Apply, with full particulars as to salary and experience, to Holme, Chemist, Wallingford, Berks.

**QUALIFIED** young man, single and rejected or discharged, required immediately; permanency, with good prospects of advancement. Please state age, salary required, and when at liberty, "H. L." (120/252), Office of this Paper.

**QUALIFIED** Manager for Branch; a smart man will be liberally dealt with. Please send full details (at once) to C. H. Griffiths, Ltd., Chemists, Droylsden.

**QUALIFIED** Manager wanted for Branch; ineligible, or fully qualified lady. Apply, with full particulars, age, experience, salary required, etc., photo if possible, to W. T. Hicks & Co., 28 Duke Street, Cardiff.

**REQUIRED**, unqualified Assistant; whole or part time; discharged, C3, or over military age; good salary offered. S. Matz, 341 Cheetham Hill Road, Manchester.

**SURGICAL INSTRUMENT BUSINESS**.—Assistant for Shop Counter; state age, other duties accustomed to, and wages expected. Reply "Surgical," Lee & Nightingale, Liverpool.

**UNQUALIFIED** Assistant; ineligible; N.H.I. Dispensing and to assist at Counter; reasonable hours; £3 weekly. Full particulars, Briggs, Chemist, 126 Hoe Street, Walthamstow.

**UNQUALIFIED** Assistant wanted (lady) for Dispensing, etc. State age, salary, and reference, Taylor, Gibson & Co., 17 Brigg Market, Newcastle-on-Tyne.

**WANTED**, lady Dispensers, holding Minor Pharmaceutical certificate, for Military Hospitals in Salouika; able to serve for one year or the duration of war. Apply Secretary, JOINT WOMEN'S V.A.D. COMMITTEE, DEVONSHIRE HOUSE, PICCADILLY, W. 1.

**WANTED** (immediately), a qualified man (over military age) to take charge of country Branch, to which is attached a progressive Dental Practice (unregistered); the position offers unique opportunities to the man with the necessary experience; highest references essential. Apply in first instance, with full details of experience, to 120/4, Office of this Paper.

**WANTED**, qualified Dispenser; man or woman; required with good experience. Apply Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.

**WANTED**, experienced, energetic Assistant at Dispensing Counter. Apply, with full particulars of experience, salary, etc., to "A. E. C.," Triscombe, Edgar Road, Winchester.

**WANTED** for Doctor in Northern suburb, Dispenser-Bookkeeper; work light; no Sunday, one afternoon; £2 per week. Apply 120/10, Office of this Paper.

**WANTED** (immediately), a lady Dispenser and Assistant, or discharged soldier, with some knowledge of Pharmacy and Dispensing in good-class Retail trade. Kindly state age, salary wanted, experience, and send copies of recent testimonials to Percy S. Richardson, Chemist, Dudley, Worcs.

**WANTED** (immediately), lady Dispenser-Bookkeeper, Doctor's practice, Gravesend; salary by arrangement. Apply Dr. Lawrence, Kenley, Gravesend.

**WANTED**, Assistant; outdoors. Apply, stating age, experience, and salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

**WANTED**, Junior for brisk Retail and Dispensing; not eligible for Army. Apply, with references and photo, to D. Thomas, 128a Penarth Road, Cardiff.

## WHOLESALE.

**CHEMICAL** Foreman wanted; must have first-class experience; Government work; permanency; good prospects; £4 per week. Send full particulars to Box 552, Smiths' Agency, Ltd., 100 Fleet Street, E.C. 4.

**CHEMICALS**.—Wanted for London, Wholesale Assistants (male or female), with experience in putting up orders for Drugs and Chemicals. Write, stating age, experience, wages, and references, to "Chemicals" (122/34), Office of this Paper.

**CHEMICALS**.—Wanted for City Wholesale Warehouse, a well-educated girl for office work, invoicing, etc.; experience of Chemical and Drug trades desirable. State age, experience, wages, and references to "Chemicals" (122/340), Office of this Paper.

**CLERK** wanted; one used to the Drug trade preferred. Apply by letter to "B. L.," c/o Wright, Layman & Umney, Limited, 46 Southwark Street, S.E. 1, stating experience.

**COMMISSION TRAVELLER**.—Good terms offered by Disinfectant firm to Travellers calling on Hospitals and Institutions. Reply 51/60, Office of this Paper.

**DRUG** Checker required, male or female, calling and dispatch, by London Wholesale firm. State age, experience, and wages required, 68/63, Office of this Paper.

**HOUGH, HOSFASON & CO., LTD.**, 2 Bridge Street, Manchester, invite applications from persons with good experience of the Drug trade, for the Offices and Wholesale Counters; also hands in various departments of their works. Apply, with full particulars, references, wage, or salary required, to the Managing Director.

**INVOICE** Clerk wanted by first-rate provincial Drug and General house; must be competent to take charge of office if required; ineligible. Address in confidence, stating age, experience, salary required, to "Invoice" (64/66), Office of this Paper.

**LABORATORY** Assistant (ineligible for Military Service) to take charge of Manufacturing department; must be accustomed to working steam plant. Applicants should give full particulars of experience, stating age and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

**SALESMAN** wanted by well-known London house; Druggists' Sundries, Toilets, and Perfumery; all England south of Birmingham (London excepted). State experience and full particulars to 67/58, Office of this Paper.

**TRAVELLER** wanted for country; used to calling on Chemists and Hairdressers; salary and commission. State experience and salary required to Tozana Perfumery Co., Ltd., 257 Gray's Inn Road, London, W.C.

**WANTED**, an experienced Pill and Tablet Maker; ineligible for military service. Apply, stating age, experience, and wages required, to Lofthouse & Saltmer, Ltd., Wholesale Druggists, Hull.

**WANTED** for Sundries department of London Wholesale House, young lady, to take entire charge (buyer, etc.); some experience essential. Apply, stating salary required, to 69/14, Office of this Paper.

**WANTED** (at once) by a London house, Export Packers; also experienced girls for filling and finishing, wet and dry counter work. Apply by letter, stating previous engagements, age, and wages required, to "Aspirin" (69/42), Office of this Paper.

**WAREHOUSEMAN** (ineligible) wanted in Chemist's Sundries house (Fulham); experience in packing and forwarding essential; wages 45s. and war bonus; hours 8-6, Saturdays 1 o'clock. Apply 67/26, Office of this Paper.



**WET COUNTER.**—First Hand wanted; man with Retail experience only would probably suit. Apply, giving full particulars and stating wages required, to Secretary, General Apothecaries' Company, 49, Berners Street, London, W. 1.

**WET Counter Hand** wanted at once; comfortable permanency to right man. State wages and experience, 119/24, Office of this Paper.

**WORKS** Chemist required; one conversant with Soap manufacture and Agricultural and Horticultural preparations. Write, stating full particulars and salary required, 54/41, Office of this Paper.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every  
10 words or less beyond, prepaid.

### [HOME.]

#### RETAIL.

**A** POST required in London; Hospital or Dispensary preferred; temporary work not objected to; disengaged now; Hall certificate, 1915; excellent testimonials. Reply "W." (119/21), Office of this Paper.

**A** DVERTISER, experienced and reliable, desires engagements; whole or part time; experienced Branch Manager. "H.", 49 Streatham Place, S.W. 2.

**A** S Assistant by competent trustworthy man; over military age; active; varied experience; married; unregistered; excellent references; salary not less than 50s. "Abstainer," 58b London Road, Portsmouth.

**A** S Locum; permanency; excellent references; varied experience; good salary requisite; shortly disengaged. Apply 122/8, Office of this Paper.

**A** SSISTANT, disengaged, age 46, seeks situation in the suburbs of London; thoroughly experienced; married; outdoors; unqualified. Please state salary and hours, 117/35, Office of this Paper.

**A** SSISTANT or Locum; 28; unqualified; well experienced; Counter and Dispensing; Manchester district. Apply 120/7, Office of this Paper.

**A** SSISTANT; 22; tall; 8 years' experience (Grade III.); unqualified; Dispensing, Photographic, quick Counter, Windows. State salary offered, etc. (disengaged one month), "Hexamine" (122/35), Office of this Paper.

**A** SSISTANT; 23; good experience and references; Grade 3; married, tall, smart; unqualified; in or near Worthing. "Disengaged," 49 Kingsland Road, Broadwater, Worthing.

**C** HEMIST'S daughter (unqualified) seeks responsible position; can manage shop with qualified elderly Dispenser; understands care, upkeep of stock, bookkeeping, how to deal with customers; energetic, conscientious; assist Dispensing; £3 3s. Apply 121/35, Office of this Paper.

**C** OMPETENT (all-round), unqualified Assistant, exempt military service, shortly disengaged. Please give full particulars, including hours and salary, "G.", 31 Rylstone Road, Eastbourne.

**D** AILY relief; qualified; 45. "Pharmacist," 9 Claverton Street, S.W.

**D** ISENGAGED; elderly, active, reliable, etc.; qualified; single. 35 Hatcham Park Road, S.E. 14.

**D** ISPENSER, Extractor, etc., is disengaged; reliable; good references. Apply 124/14, Office of this Paper.

**D** ISPENSING appointment, London Doctor, wanted; trained young lady, 17½, 46 Whitehall Park, N. 19.

**E** ASTBOURNE OR SOUTH COAST.—Two lady Dispensers (Hall) desire post; together or separately; Hospital or Institute preferred; would consider Doctor or Chemist; good London experience. Apply 121/12, Office of this Paper.

**E** LDERLY; qualified; single; easy hours; salary moderate (London). Apply 123/8, Office of this Paper.

**E** XPERIENCED Pharmacist, over military age, still in business, requires responsible position in London from 2 till 8; good Dispenser, Prescriber, and skilled Optical and Dental Worker; salary £4 4s. per week, with commission on Optical and Dental work; disengaged. Apply 123/4, Office of this Paper.

**L** ADY Dispenser-Bookkeeper wants post; Doctor, Institution; experienced. "R. B.," 501 Hornsey Road, London.

**L** ADY Dispenser-Bookkeeper requires post with Doctor or Institution; Tunbridge Wells district preferred. Apply 121/23, Office of this Paper.

**L** ADY Dispenser, reading Miner, requires part-time position; about 36 hours weekly. Apply 121/31, Office of this Paper.

**L** ADY Dispenser, 32 (Hall qualification 1912), desires post with a Doctor for a few hours daily. Address "N. W.," 8 Tennyson Mansions, Queen's Club Gardens, W. 14.

**L** ADY (young) requires situation in Chemist's shop where she could learn Dispensing; live in; W. or S.W. district preferred. Colegrave, 28 Chelsea Park Gardens, S.W. 3.

**L** ADY Dispenser (Hall) requires post with Doctor or Institution; Hants, Dorset, or Wilts; disengaged June. Apply "G. E. M." (120/24), Office of this Paper.

**L** ADY Dispenser (Hall); post or locum; London; experienced; good testimonials; Institution, Doctor. Apply 122/26, Office of this Paper.

**L** ADY Dispenser, Hall qualification, two years' experience, good references, desires post with Doctor; S.W. London district or S. Coast preferred. Avenel, 122 Dora Road, Wimbledon Park, S.W. 19.

**L** OCUM Dispenser (Hall); experienced. Miss Saul, 129 High Street, Brentwood, Essex.

**L** OCUM; lady Dispenser (Hall qualification); experienced; good references; Doctor or Institution; disengaged May and June. Apply 122/33, Office of this Paper.

**L** OCUM; town or country; commence June 3rd; highest references. State salary, "G.", 24 Gunnersbury Lane, Acton, W.

**L** OCUM, Branch Manager, or permanency; elderly, reliable. "Dispenser," 92 High Street, Portsmouth.

**L** OCUM or permanent; disengaged; unqualified; 50; active. "Aspirin," 1 Gillingham Street, Victoria.

**L** OCUM; part-time permanency; disengaged May 6th; experienced. "S.," 19 Rockmount Road, S.E.

**M.P.S.** (elderly and active) seeks post; 5 hours' daily; is absolutely reliable, and had a wide international experience; West of England preferred; indoors. Apply 122/37, Office of this Paper.

**M** ANAGER; permanency; finest West-End, Continental, and Photographic experience. Apply "Progressive" (116/18), Office of this Paper.

**M** ANAGER, holding responsible position, qualified, age 48, would like larger establishment; West-End preferred; salary £300 and commission. Apply 117/36, Office of this Paper.

**O** WING to shortage of labour and other causes, Chemists who have taken their own stocks cannot devote the time required to price them out. The advertiser, who has had many years' experience, will undertake to do it in a satisfactory manner and on reasonable terms. Apply 112/19, Office of this Paper.

**O** XFORD OR NEAR.—Lady Dispenser (Hall) desires temporary post (immediately). Apply 124/16, Office of this Paper.

**P** ART-TIME lady Dispenser (Hall) disengaged some evenings weekly. 31 Parkgate Road, Wallington.

**P** ERMANENCY or Locum; 30; rejected; London experience. Harries, 158 City Road, Cardiff.

**P** OSITION as Manager of first-class business; advertiser used to control of large staff; has a thorough knowledge of the business in all branches; over military age. Apply 120/5, Office of this Paper.

**Q** UALIFIED; 42; good experience; exemption; Potteries preferred. Apply 118/17, Office of this Paper.

**Q** UALIFIED Manager, discharged soldier, desires permanency, preferably view to succession, at watering place, country, or health resort; capable, tall, abstainer; excellent references. Apply 120/8, Office of this Paper.

**Q** UALIFIED, over military age, seeks responsible post; Wholesale or Retail; finish not later than 6 o'clock evenings; salary required £5 a week; West Riding preferred. Apply 120/3, Office of this Paper.

**Q** UALIFIED; Manager or Superintendent; 38; exempt; permanency. "Pharmacist," 21 Welch Road, Southsea.

**Q** UALIFIED, 29, Grade 3, with Continental and West-End experience, desires post as Manager or First Assistant; speaks several languages; West-End district preferred. "A. A.," 48 Regent Street, Piccadilly Circus.

**Q** UALIFIED; 44; single; country preferred; moderate salary. Lenton, Clifton, Biggleswade, Beds.

**Q** UALIFIED, 53, disengaged, offers services; short hours. "Kemist," 17 Howley Place, W. 2

**T** HOROUGHLY competent Dispenser; Manager or Assistant; West-End experience; over military age; locum or permanency; London or suburbs. "B.," 80 Rosebank Avenue, Sudbury Hill, near Harrow.



**WORTHING.**—Dispenser, good testimonials from Chemist and Hospital, requires part-time post in Worthing or neighbourhood. Miss Stonnill, Hornsey Villa, Lyndhurst Road, Worthing.

## WHOLESALE.

**ADVERTISER**, unqualified, seeks permanency with small Wholesale or Speciality proprietor; age 48; energetic; plenty of experience; would travel or otherwise. "Rhei" (120/14), Office of this Paper.

**EXPERIENCED Traveller** with good connection, representing high-class line requires another non-competing line on basis of commission and part expenses; highest references. Address 121/26, Office of this Paper.

**FOREMAN Perfumer** and expert in Toilet preparations would seriously adapt himself to Pharmaceutical or Technical work; has some theoretical knowledge of Chemistry; accurate worker; used to machinery, steam pans, etc.; ineligible; salary £3; preferably in London. Apply 119/16, Office of this Paper.

**GENTLEMAN**, large experience Drug and Allied trades, travelling (good connection), office and manufacturing, desires part-time employment during war. Write "Dispenser" (121/22), Office of this Paper.

**GENTLEMAN**, thoroughly conversant with the Drug, Sundries, and Toilet specialties, desires position as Representative; ineligible; excellent references; Midlands or Wales preferred. "L. N." (123/3), Office of this Paper.

**MANAGER**; Sales, General, or Advertising; experienced in Proprietaries and Drugs, Chemist; age 48; salary £450. "J." 13 Turnham Green Terrace, W. 4.

**PHARMACEUTICAL Chemist**, with excellent works experience in the manufacture of Pharmaceutical Specialties on a large scale, seeks post as Manager or Assistant Manager in Pharmaceutical Works (protected); used to control of staffs (both sexes), modern plant, efficient costing, etc.; experienced in origination of manufacturing formulae; Grade III. Apply "Pharmakon" (122/28), Office of this Paper.

**TOILET Expert**, with unique experience in all branches, seeks post with large progressive house. Apply 118/21, Office of this Paper.

**YOUTH**, 19, ineligible, requires situation in Chemical Laboratory; three years' technical training, and two years' experience as Analytical and Works Chemist. "K." 25 Devonshire Road, Hackney, N.E. 9.

## MISCELLANEOUS.

**MCADAM & TUCKNISS**, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—300 Anglo-Continental Guano, 5s. 3d. c.d.; 10 Camwal, £50; 4½ Debs., £33 15s. each; 59 Ordinary, 6d.; 16 Prefs., 5s. 3d.; 200 J. C. & J. Field Prefs., 14s. 6d.; 200 Farrow's Bank, 7s. 10½d.; 225 International Plasmon, 8s. 1½d. c.d.; 50 Parke's Drug Prefs., 15s. 6d.; 300 Schweppe's Del., 5s. 3d.; 400 Sapon Soap, 4s. 6d. Wanted (subject).—200 Allenbury Prefs.; 150 Evans Lescher Prefs., 16s.; Idris Prefs. and Debs.; 200 Wright, Layman Prefs., 19s.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

**MISCELLANEOUS**.—About 1,000 Capsuled Bottles, each containing 30 c.c. Cacodylate of Soda in solution; also 200 bottles Proot's Iodide Salts. Wilson & Co., 5 Bevis Marks, E.C. 3.

**PHYSIOLOGICALLY Pure Salicylate of Soda**, 2 cwt., for sale at 7s. per pound taking the lot, or 7s. 6d. per pound for 28 lb., carriage paid; sample on request. Apply 118/19, Office of this Paper.

**FOR Sale**, 1 × 10 Chamber Filter Press, with wooden chambers of the flusa plate, and distance frame type, non-washing, having plates 28" × 21" external measurements, giving a filtering area of 50 square feet; practically new; price £120. Apply to 124/17, Office of this Paper.

**GENUINE Cod-liver Oil** (about 10 or 12 barrels); 5 gallon lots, 16s. gallon; 25 gallon barrels, 15s. 6d. gallon; sample free. Morrey, Chemist, Market Drayton.

**DRYING AND GRINDING OF CHEMICALS**.—Factory, with first-class plant in London, is open to undertake the Drying, Pulverising, and Mixing of Chemicals in any quantities up to 100 tons per week. Write "Z. 1268," care Deacon's, 7 Leadenhall Street, E.C. 3.

**SHOWCASES AND SHOP FITTINGS**.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

**SECOND-HAND CHEMISTS' FITTINGS**.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

## NATIONAL ANILINE & CHEMICAL

COMPANY, INCORPORATED,

244 MADISON AVENUE, NEW YORK.

Cable Address—"JUBILANT, NEW YORK."

London Agents: SAMUEL LAMBERT & CO., 14 Mincing Lane, E.O.

## PERFUMERS! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmanship and prompt delivery. Ingredients supplied if desired at lowest market prices. Write, stating requirements—

MARTIN & CO., 71 City Road, Finsbury, London, E.C. 1

8/6

3  
Years  
4  
Columns.

Jay Mack's Ledger

gives yearly Sales, Purchases, Exes., with only 10 mins. work weekly; Easy Stocktaking explained; Form Pages show Balance Sheets and Income Tax Deductions; no previous Book-keeping experience needed.

10/6

4  
Years  
5  
Columns

On appo. on receipt of cheque. 1/ Post Booking Fee deducted if returned.

Mack-Ivor,  
Rightown P.O.,  
Crews.

Ayrtons, Evans,  
Bleasdale, Ucal  
Raimes (Edinb.)

Australia:  
Elliotts,  
C.D.A.

S. Africa:  
Border Drug,  
Gardners.

## COTTON WOOL (WHITE, ABSORBENT, INTERLEAVED.)

One Pound Parcels.

1 cwt. at 2s. 3d. per lb.; 2 cwt., 2s. 2½d.; 5 cwt., 2s. 2d. Carriage Paid. Cash with Order. Wrappers charged 3s. 6d. per cwt., and returnable. Sample for Stamp.

J. MILLS, Chemist, PLATT BRIDGE, WICAN.

## "HOLMIER" SACCHARIN TABLETS.

COMPOUND.

We are oversold, and to complete the orders in hand must regrettably decline any new ones

UNTIL WE RENEW OUR PRICE LIST IN THIS SPACE.

We will do our best to quickly clear orders in hand.

MEYER, Manufacturing Chemists, Gravelly Hill, BIRMINGHAM.

## THERE IS MONEY

to be made in the Photographic Department of your business, but the Developing, &c., must be WELL and QUICKLY done. We are experts, and return all work promptly. We pay return postage on all orders of 2/- or over. Send for our list and give us a trial.

STEAD & CO., Photographic Experts, Duke St., BRIGHTON.

## Developing Printing Enlarging

PRICES FREE.

PROMPTNESS.

Wanted—all kinds of Folding Cameras, plate or film. Cash on receipt.

MARTIN, Chemist, SOUTHAMPTON.

## FLOWER AND VEGETABLE SEEDS.

BULK OR PACKED.

PENNY PACKETS, per gross, 7s.; 5 gross @ 6s. 9d.; 10 gross @ 6s. 6d.; 25 gross @ 6s. 3d. Net, Carriage Paid. Assorted as desired. List of Varieties on Application.

Special Low Quotations for Bulk.

A. S. PRICE & CO., Ltd., Blackheath, Birmingham

ALL CHEMISTS  
SHOULD STOCK

**ABDINE**

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 Years' Reputation. "ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 1½d. each; Boxes of 12 Packets, 1/8. Wholesale Prices on Application. Sample Box 1/6. D. M'GLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH.



# EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.  
No advertisement inserted for less than 6d.

## FOR DISPOSAL.

### BOOKS AND PERIODICALS.

**EXCEPTIONAL BARGAIN.**—Complete, set "Pharmaceutical Journal," 1841 to 1916, inclusive, 97 volumes and three general indexes (88 bound, not uniform, six early vols. require mending, and 9 unbound), £5. Ross, 131 North Hill, Highgate, N. 6.

### DRUGS AND CHEMICALS.

**GUM** Olibanum,  $\frac{1}{2}$  cwt.; Red Prussiate Potash, 7 lb.; offers. Chemist, 77 High Street, Bournbrook.  
**WHAT** offers for six bottles twenty-five Adalin Tablets, twelve Phosphocase, Doran, Chemist, Bray, Ireland.  
**WHAT** offers?  $\frac{1}{2}$  lb. Ol. Juniperi Bacc.; 20 lb. Ol. Ricini Opt. (Pharmaceuticab). Apply 122/21, Office of this Paper.  
**OL.** Menth. Pip. Extol., 21s. lb.; Ess. Moschi, 32s., Ess. Vanilla, 9s.; Ol. Anethi, 3s. oz.; 2 lb. of each. Callam, East Dulwich.  
**APOMORPHIN.** Hydrochlor. P.B., 1 oz., at 80s.; Atropin, 2 dr., at 20s. per dr. Liston, Chemist, 280 Fulham Road, London, S.W. 10.  
**ASPIRIN** Tablets, 13s. 9d., 1,000; Phenacetin, 8 oz., 17s. 6d.; Phenazon, 8 oz., 29s.; Acid Salicylic, 2 lb., 14s.; Sodii Salicyl., 5 lb., 25s.; Potas. Bromid., 2 lb., 22s.; Potas. Permang., 2 lb., 29s.; Guaiacol Carb., 2 oz., 16s.; Resorcin, 4 oz., 13s. 6d. Post paid. Forryan, 40 Duncan Road, Leicester.

### MISCELLANEOUS.

**FEEDING** Bottles; 2 gross; our name; no fittings; offers. Oxford Drug Company, Oxford.  
**EYESIGHT** Testing Case; convex and concave lenses; .25 to .20 dioptres. What offers? Renoufs, Chemists, Jersey.  
**CLINICALS**, 11=2 min., 7=3 min.; 7 Lister's  $\frac{1}{2}$  min.; 6 Maw's  $\frac{1}{2}$  min.; Crystal Lens; 9 Hicks' "Universal," each in metal case. What offers? Apply 121/27, Office of this Paper.

### WANTED.

**JOTHIAN** Liquid. State price, Doran, Chemist, Bray, Ireland.  
**SACCHARINE.**—Wanted, 2 lb., 550. What offers? Apply 122/10, Office of this Paper.  
**CHEMICAL** Balance. Please give full particulars and price, 70/1, Office of this Paper.  
**LABELS**, coloured, for Fruit Salt or Saline; specimen and price. Stonelake, Chemist, Guernsey.  
**GARDNER** Sifter and Mixer; capacity about 120 lb. Particulars to 69/24, Office of this Paper.  
**SACCHARINE** wanted, lump or powder, also Tablets; cash price. Apply 123/2, Office of this Paper.  
**ABSORBENT** Wool, plain and borie lints, wanted in fair quantities for cash. Apply 115/35, Office of this Paper.  
**STEARIC** Acid, redistilled or commercial, any Quantity. State price, Brown, Chemist, Haymarket Terrace, Edinburgh.  
**TABLET** Machinery, new or second-hand, wanted. Particulars to 61/54, Office of this Paper.  
**PILL** Machine for power. State price and particulars, A. W. Gamage, Ltd., Drug Department, 107 Hatton Garden, E.C. 1.  
**SECOND-HAND** Drums required; all sizes from 1 to 180-gallon capacity. State quantities and prices, 110/7, Office of this Paper.  
**WANTED** for cash. Cameras, Plates, Papers, and Photo Sundries. Particulars and lowest price to Wilson's, Photo Chemists, Wigan.  
**GARDNER'S** or similar patent Rapid Sifters and Mixers combined; advertisers require several power Machines up to 10-cwt. size. Box 94, G.P.O., Liverpool.  
**WANTED**, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.  
**OPTICAL** books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.  
**SPECTACLE** Lenses, gold-filled Spectacle and Eyeglass Frames in any quantity. Particulars and prices to Bishop & Vincent, 460 Holloway Road, N. 7.  
**SILENT** Salesman or Glass Case, about 29 in. wide, 16 in. deep, and 4 or 5 feet high; glass shelves. State full particulars and price, Savage, Chemist, Brighton.  
**WANTED**, Square or Round Tin Boxes, new or second-hand, for powdered colours; size 1 lb. and upwards; good prices given; cash payment. Williams Bros. & Co., Hounslow.  
**JOB** line Tins wanted, suitable for Boot Polish, etc. We are also buyers of Tin Plates, printed or plain. Also Cartons for same. "Brytenup" Polish Works, Marsh Lane, Preston.  
**SPECTACLE** Lenses, Glazed Spectacles, any kind; Gold-filled Spectacle and Eyeglass Frames, Artificial Eyes and Barometers. State quantity, condition, price, etc., Hebdtich, "Parkholme," Christchurch Road, Doncaster.  
**WANTED**, SHOP ROUNDS, few, 40 oz., with glass caps, for oils; also 10-20-30 oz. narrow necks; send height and price; also "B.P." for 1914. Jasper Johnson, 319 Shoreham Street, Sheffield.

## IMPORTANT TO CHEMISTS WHO STOCK PHOTOGRAPHIC GOODS.

**WATSONS', SHEFFIELD,  
WANT**

## Kodak Films, all Sizes, AND Cameras of all Kinds.

Also Enlargers, Lenses, Developing Tanks,  
Tripods, and all Photographic Accessories.

### WHY BE OVERSTOCKED

or let that apparatus which is now  
unsaleable, owing to restrictions or lack  
of trade, perish or go stale?

**WE** give two-thirds retail price for Kodak  
Films, Vest Pocket Kodaks (except 35/-  
model), Watch Pocket Carbiners, Brownie and  
3½-inch Developing Tanks and many other  
articles. Good prices for other goods.

Send any quantity along to us with an advice  
note. We make you our offer by return, and  
remit you immediately. Should no business  
result, all goods returned carriage paid at once.

### Recent testimonials from Chemists, etc.:

**EVEESHAM, 5/1/18.**  
"I have yours with cheque £3. and enclose receipt  
herewith. I consider your dealings exceedingly fair,  
prompt and satisfactory. It will be a pleasure to  
recommend friends to you."  
E. M. E. Co.

**GLASGOW.**  
"I am in receipt of your letter, for which I thank you.  
I shall be pleased to accept 10/- for the camera. It is more  
than I expected to get."  
R. H.

**LONGTON.**  
"Many thanks for postal order to hand yesterday.  
I must say that you have been most courteous and  
straightforward over this matter. Indeed, I cannot  
conceive of a firm being more straightforward than  
yourselves."  
H. H. E.

**HOLLOWAY, N.**  
"I am in receipt of your letter and cheque, value £5,  
in payment for camera; and I am greatly obliged by the  
prompt and liberal treatment I have received in the  
matter."  
C. W.

**PURFLEET.**  
"I am in receipt of your letter, of the 31st ult., together  
with the cheque for £6 10s. enclosed therewith, and for  
which I am extremely obliged. I should also like to thank  
you for the promptness and courtesy with which you have  
handled the transaction."  
E. F.

**WATSONS', The Camera House,  
84 High Street, Sheffield.**

Telephone No. 27.



## Pharmaceutical Council Election.

# KEALL AND MELHUISH

The BUSINESS CANDIDATES, stand for a  
CONSTRUCTIVE and DEFENSIVE Policy

**N. H. I.**—Increased remuneration, and no  
"Mile Limit."

**RECONSTRUCTION.**—Insistence on the claims  
of Pharmacy in all legislation.

**TITLE "CHEMIST."**—Firm retention.

**THE UNQUALIFIED.**—No registration with-  
out qualification.

*London Official Candidates, also recom-  
mended by the Lancashire Federation.*

VOTE FOR

## KEALL AND MELHUISH

## LEEDS & WEST RIDING CHEMISTS' ELECTION COMMITTEE.

Pharmaceutical Council Election,  
MAY 1918.

## YOUR VOTE & INFLUENCE

are requested on behalf  
of the candidature of

# Mr. F. PILKINGTON SARGEANT,

who has for the last six years faithfully  
watched over your interests on the  
Council, Local Associations' Executive.  
and the various Committees.

H. GILLEGHAN,  
Hon. Sec.

## Pharmaceutical Council Election

# JAMES KIRKPATRICK

*is the Official Candidate of*

West Ham, East Ham, and Essex County Associations,  
and has the support of the majority of the London  
District Associations (including the Eastern, Northern and  
South-Western), together with Ealing District and  
Middlesex County Associations.

*He stands for the following:*

### N.H.I.

Minimum Flat Rate Dispensing Fee of 6d. per  
Prescription. Abolition of the "One-mile Limit."

### Reconstruction—

Federation of Local Associations, and establishment of  
a Retail Trade Council with Executive Powers.

### Title "Chemist."—

Insistence on its retention as the Legal Property of the  
qualified Chemist and Druggist.

### Qualification.—

For all dispensers and persons desiring to carry on the  
business of a Chemist and Druggist: that of the  
Pharmaceutical Society.

VOTE FOR

# KIRKPATRICK

*(Adopted Candidate of London District Associations).*

## HOW TO SAVE MONEY IN SURGICAL DRESSINGS.

Compare these prices before ordering. *WE* can save you about 30%

**WHITE ABSORBENT COTTON WOOL** (interleaved)  
in 1 lb. rolls, at 2/2 per lb.

**WHITE LINT**, in 1 lb. rolls, at 3/9 per lb.

**BORACIC LINT**, in 1 lb. rolls, at 2/8 per lb.

Packed in 1 cwt. Bales. Bales charged extra, 3/6 each.  
Also supplied in 28 lb. bales of each at 2/3, 3/10, 2/9 respectively  
Carriage paid on 56 lb. Bales 1/6 each. Cheque with Order.

*Bales must be paid for, and allowed when returned.*

THE PRIMO DRUG CO., 5 Bury New Road, Manchester.

## DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED. plain or graduated.  
8 and 4 ounce. 6 and 8 ounce.

12 ounce.  
WHITE PHIALS, plain or teaspoons.  
1 ounce. 12 ounce.

1 - 2 BLUE LOTION BOTTLES, all sizes.

**GORKS.** Superior Quality. No advance in price.

6 and 8 ounce ... 1s. per gross, in 6 gross bags.  
Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars  
on application.

**I. ISAACS & CO.,** Glass Bottle Manufacturers,

106 Midland Road, St. Pancras, London, N.W. 1,

or ISLINGTON BOTTLE COMPANY,

7 New Inn Yard, Tottenham Court Road, London, W. 1

Orders sent to either establishment have attention.

Established 100 Years.

Bankers: London County and Westminster Bank, Bloomsbury Branch.



# **REDDGRAVE, BUTLER & CO.**

## **ESSEX HOUSE, STRATFORD, E. 15.**

*Telephone : Stratford 799.*

---

---

**PARAFFINUM LIQUIDUM, B.P. WHITE OILS.**

---

---

**WE CAN OFFER FOR IMMEDIATE  
DELIVERY**

**GENUINE RUSSIAN  
PARAFFINUM LIQUIDUM  
B.P.  
(BRITISH REFINED.)**

---

**SAMPLES and PRICES UPON APPLICATION.**

---

**WE DO NOT NEED A PRIORITY CERTIFICATE FOR DELIVERY OF THIS MATERIAL.**

# A "BELL" Trio.

Three  
Standard  
Pharmaceutical  
Syrups.

## Syr. Ficarius "Bell"

Manufactured by us for 20 years, this Syrup is an **Ideal Laxative** for either children or adults. Pharmacists on the look-out for a safe and pleasant aperient preparation will find it all they require. Sold either in bulk or in bottles with a non-dutiable "own name" label.

## Syr. Glycerophosph. Co. "Bell"

We were the first to introduce this Syrup into England, and its popularity as an "Improved Chemical Food" is growing daily. Non-astringent and non-constipating, most pleasant to the taste and attractive to the eye, it forms an elegant pharmaceutical addition to the up-to-date Pharmacist's stock. Sold either in bulk or in bottles with "own name" labels.

## Syr. Glyceroph. Co. Medulla "Bell"

A Children's Tonic *par excellence*. For rickety, weakly children it is unequalled, and when introduced to the public quickly commands a ready sale. Supplied either in bulk or in bottles with "own name" labels.

*Samples and Prices of the above on Application.*

Note  
our  
Address



**JOHN BELL, HILLS & LUCAS, LIMITED**

Oxford Works, Tower Bridge Road, LONDON, S.E. 1.

Established 1798.

Disinfectants

Fluid or Powder Form  
with guarantee of  
Tar Acids or  
Co-efficiency.

Liquid  
Sheep Dip

Paste &  
Block  
form  
also  
supplied.

*These Goods may be  
offered under Chemists'  
Own Name and Brand.*

**BURT, BOULTON & HAYWOOD, LTD.,**

64 CANNON ST.,  
LONDON, E.C.

Chemical Works: Prince Regent's Works, Silvertown, E.

"IALINE"—LYSOL  
BRITISH MADE

# Bournville Cocoa & Chocolate

"THE VERY FINEST PRODUCTS"—*The Medical Mag.*

MADE BY CADBURY.



PATTINSON'S

# MAGNESIA

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 6 Lloyd's Avenue, London, E.C.